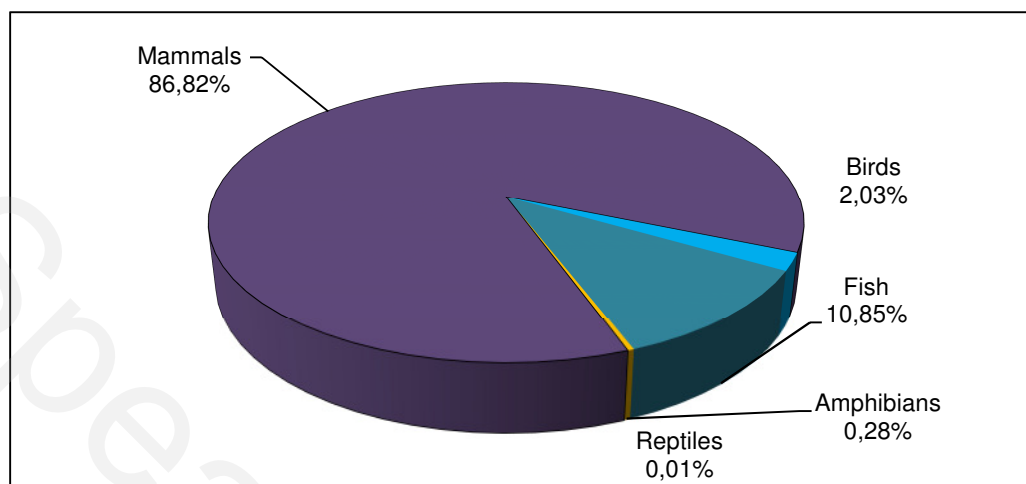


## 1. Animals used by species

Table 1: In total animals used by species

| Animal Species                 | Number of Animals | %              |
|--------------------------------|-------------------|----------------|
| Mice                           | 1.959.169         | 70.05%         |
| Rats                           | 312.654           | 11.18%         |
| Guinea-Pigs                    | 14.569            | 0.52%          |
| Hamsters (Syrian)              | 1.171             | 0.04%          |
| Hamsters (Chinese)             | 8                 | 0.00%          |
| Mongolian gerbil               | 5.365             | 0.19%          |
| Other Rodents                  | 6.890             | 0.25%          |
| Rabbits                        | 95.736            | 3.42%          |
| Cats                           | 485               | 0.02%          |
| Dogs                           | 2.008             | 0.07%          |
| Ferrets                        | 122               | 0.00%          |
| Other carnivores               | 447               | 0.02%          |
| Horses, donkeys & cross-breeds | 1.017             | 0.04%          |
| Pigs                           | 16.995            | 0.61%          |
| Goats                          | 235               | 0.01%          |
| Sheep                          | 3.684             | 0.13%          |
| Cattle                         | 4.713             | 0.17%          |
| Prosimians                     | 43                | 0.00%          |
| Marmoset and tamarins          | 95                | 0.00%          |
| Cynomolgus monkey              | 1.583             | 0.06%          |
| Rhesus monkey                  | 62                | 0.00%          |
| Baboons                        | 8                 | 0.00%          |
| Other Mammals                  | 1.200             | 0.04%          |
| Domestic fowl                  | 39.442            | 1.41%          |
| Other birds                    | 17.315            | 0.62%          |
| Reptiles                       | 417               | 0.01%          |
| Rana                           | 932               | 0.03%          |
| Xenopus                        | 3.702             | 0.13%          |
| Other Amphibians               | 3.182             | 0.11%          |
| Zebra fish                     | 193.089           | 6.90%          |
| Other Fish                     | 110.435           | 3.95%          |
| <b>Total uses</b>              | <b>2.796.773</b>  | <b>100.00%</b> |

*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

**Figure 1: Animals used by species groups**

*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

**Table 2: Animals used by species groups**

| Species grouping Level 1 | Number of Animals |
|--------------------------|-------------------|
| Warm-blooded vertebrates | 2.485.016         |
| Cold-blooded vertebrates | 311.757           |
| <b>Total</b>             | <b>2.796.773</b>  |

| Species grouping Level 2 | Number of Animals |
|--------------------------|-------------------|
| Mammals                  | 2.428.259         |
| Birds                    | 56.757            |
| Fish                     | 303.524           |
| Amphibians               | 7.816             |
| Reptiles                 | 417               |
| <b>Total</b>             | <b>2.796.773</b>  |

| Mammals            | Number of Animals |
|--------------------|-------------------|
| Rodents            | 2.299.826         |
| Rabbits            | 95.736            |
| Carnivores         | 3.062             |
| Equidae            | 10.17             |
| Artiodactyla       | 25.627            |
| Non-human primates | 1.791             |
| Other mammals      | 1.200             |
| <b>Total</b>       | <b>2.428.259</b>  |

| Non-human primates | Number of Animals |
|--------------------|-------------------|
| Prosimians         | 43                |
| New World Monkeys  | 95                |
| Old World Monkeys  | 1.653             |
| <b>Total</b>       | <b>1.791</b>      |

*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

## 2. Origin of used Animals

Table 3: Origin of used animals in total

|                                | Animals born in                |                                        |                |                   | Total     |
|--------------------------------|--------------------------------|----------------------------------------|----------------|-------------------|-----------|
|                                | the EU at a registered breeder | the EU but not at a registered breeder | rest of Europe | rest of the world |           |
| Mice                           | 1.915.898                      | 36.004                                 | 456            | 6.811             | 1.959.169 |
| Rats                           | 308.400                        | 1.851                                  |                | 2.403             | 312.654   |
| Guinea-Pigs                    | 14.566                         | 3                                      |                |                   | 14.569    |
| Hamsters (Syrian)              | 1.171                          |                                        |                |                   | 1.171     |
| Hamsters (Chinese)             | 2                              | 6                                      |                |                   | 8         |
| Mongolian gerbil               | 4.918                          | 447                                    |                |                   | 5.365     |
| Other Rodents                  | 811                            | 6.069                                  |                | 10                | 6.890     |
| Rabbits                        | 93.963                         | 870                                    |                | 903               | 95.736    |
| Cats                           | 152                            | 96                                     | 5              | 232               | 485       |
| Dogs                           | 262                            | 858                                    |                | 888               | 2.008     |
| Ferrets                        | 76                             | 30                                     |                | 16                | 122       |
| Other carnivores               | 249                            | 156                                    | 5              | 37                | 447       |
| Horses, donkeys & cross-breeds | 277                            | 740                                    |                |                   | 1.017     |
| Pigs                           | 11.351                         | 5.644                                  |                |                   | 16.995    |
| Goats                          | 99                             | 136                                    |                |                   | 235       |
| Sheep                          | 648                            | 3.036                                  |                |                   | 3.684     |
| Cattle                         | 3.306                          | 1.407                                  |                |                   | 4.713     |
| Prosimians                     | 43                             |                                        |                |                   | 43        |
| Marmoset and tamarins          | 95                             |                                        |                |                   | 95        |
| Cynomolgus monkey              | 33                             |                                        | 2              | 1.548             | 1.583     |

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|                  |                  |                |              |               |                  |
|------------------|------------------|----------------|--------------|---------------|------------------|
| Rhesus monkey    | 37               |                |              | 25            | 62               |
| Baboons          | 8                |                |              |               | 8                |
| Other Mammals    | 240              | 954            | 2            | 4             | 1.200            |
| Domestic fowl    | 30.971           | 8.471          |              |               | 39.442           |
| Other birds      | 8429             | 8.421          | 350          | 115           | 17.315           |
| Reptiles         | 9                | 223            |              | 185           | 417              |
| Rana             | 2                | 930            |              |               | 932              |
| Xenopus          | 2.232            | 250            |              | 1.220         | 3.702            |
| Other Amphibians | 933              | 2223           |              | 26            | 3.182            |
| Zebra fish       | 177.097          | 15.992         |              |               | 193.089          |
| Other Fish       | 72.832           | 26.321         | 8.631        | 2.651         | 110.435          |
| <b>Total</b>     | <b>2.649.110</b> | <b>121.138</b> | <b>9.451</b> | <b>17.074</b> | <b>2.796.773</b> |

*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

**Table 4 – 6: Origin of used animals by species groups**

| Species grouping Level 1 | Animals born in the EU at a registered breeder | Animals born in the EU but not at a registered breeder | Animals born in rest of Europe | Animals born in rest of the world | Total            |
|--------------------------|------------------------------------------------|--------------------------------------------------------|--------------------------------|-----------------------------------|------------------|
| Warm-blooded vertebrates | 2.396.005                                      | 75.199                                                 | 820                            | 12.992                            | <b>2.485.016</b> |
| Cold-blooded vertebrates | 253.105                                        | 45.939                                                 | 8.631                          | 4.082                             | <b>311.757</b>   |
| <b>Total</b>             | <b>2.649.110</b>                               | <b>121.138</b>                                         | <b>9.451</b>                   | <b>17.074</b>                     | <b>2.796.773</b> |

*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

| Species grouping Level 2 | Animals born in the EU at a registered breeder | Animals born in the EU but not at a registered breeder | Animals born in rest of Europe | Animals born in rest of the world | Total            |
|--------------------------|------------------------------------------------|--------------------------------------------------------|--------------------------------|-----------------------------------|------------------|
| Mammals                  | 2.356.605                                      | 58.307                                                 | 470                            | 12.877                            | <b>2.428.259</b> |
| Birds                    | 39.400                                         | 16.892                                                 | 350                            | 115                               | <b>56.757</b>    |
| Fish                     | 249.929                                        | 42.313                                                 | 8.631                          | 2.651                             | <b>303.524</b>   |
| Amphibians               | 3.167                                          | 3.403                                                  |                                | 1.246                             | <b>7.816</b>     |
| Reptiles                 | 9                                              | 223                                                    |                                | 185                               | <b>417</b>       |
| <b>Total</b>             | <b>2.649.110</b>                               | <b>121.138</b>                                         | <b>9.451</b>                   | <b>17.074</b>                     | <b>2.796.773</b> |

*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

| Mammals            | Animals born in the EU at a registered breeder | Animals born in the EU but not at a registered breeder | Animals born in rest of Europe | Animals born in rest of the world | Total            |
|--------------------|------------------------------------------------|--------------------------------------------------------|--------------------------------|-----------------------------------|------------------|
| Rodents            | 2.245.766                                      | 44.380                                                 | 456                            | 9.224                             | <b>2.299.826</b> |
| Rabbits            | 93.963                                         | 870                                                    |                                | 903                               | <b>95.736</b>    |
| Carnivores         | 739                                            | 1.140                                                  | 10                             | 1.173                             | <b>3.062</b>     |
| Equidae            | 277                                            | 740                                                    |                                |                                   | <b>1.017</b>     |
| Artiodactyla       | 15.404                                         | 10.223                                                 |                                |                                   | <b>25.627</b>    |
| Non-human primates | 216                                            |                                                        | 2                              | 1.573                             | <b>1.791</b>     |
| Other mammals      | 240                                            | 954                                                    | 2                              | 4                                 | <b>1.200</b>     |
| <b>Total</b>       | <b>2.356.605</b>                               | <b>58.307</b>                                          | <b>470</b>                     | <b>12.877</b>                     | <b>2.428.289</b> |

*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

### 3. Non-Human Primates by source and generation

Table 7: Generation of non-human primates

| NHP Generation         | Number of Animals |
|------------------------|-------------------|
| F0                     | 0                 |
| F1                     | 403               |
| F2 or greater          | 910               |
| Self-sustaining colony | 478               |
| <b>Total</b>           | <b>1.791</b>      |

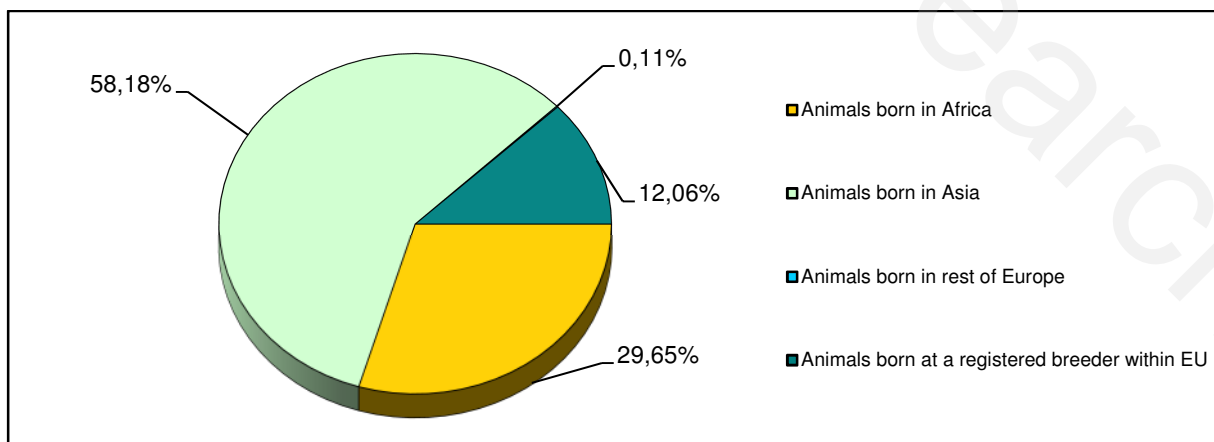
*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

Table 8: Origin of non-human primates

| NHP Source (origin)                            | Number of Animals |
|------------------------------------------------|-------------------|
| Animals born at a registered breeder within EU | 216               |
| Animals born in rest of Europe                 | 2                 |
| Animals born in Asia                           | 1.042             |
| Animals born in America                        | 0                 |
| Animals born in Africa                         | 531               |
| Animals born elsewhere                         | 0                 |
| <b>Total:</b>                                  | <b>1.791</b>      |

*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

Figure 2: Origin of non-human primates (%)



*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (excludes re-use)*

#### 4. Use of species in procedures by purposes

Table 9: Use of species in procedures by purposes

|                                | Basic Research | Translational and applied research | Regulatory use and Routine production | Protection of the natural environment in the interests of the health or welfare of human beings or animals | Preservation of species | Higher education or training for the acquisition, maintenance or improvement of vocational skills | Forensic enquiries | Maintenance of colonies of established genetically altered animals, not used in other procedures | Total     |
|--------------------------------|----------------|------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------|-----------|
| Mice                           | 842.496        | 238.995                            | 222.197                               | 116                                                                                                        | 14.248                  | 32.400                                                                                            | 4                  | 50.515                                                                                           | 1.400.971 |
| Rats                           | 37.809         | 33.573                             | 162.206                               | 66                                                                                                         | 142                     | 10.092                                                                                            | 10                 | 441                                                                                              | 244.339   |
| Guinea-Pigs                    | 650            | 1.480                              | 11.826                                |                                                                                                            |                         | 228                                                                                               |                    |                                                                                                  | 14.184    |
| Hamsters (Syrian)              | 26             | 701                                | 364                                   |                                                                                                            |                         | 10                                                                                                |                    |                                                                                                  | 1.101     |
| Hamsters (Chinese)             |                |                                    |                                       |                                                                                                            |                         | 2                                                                                                 |                    |                                                                                                  | 2         |
| Mongolian gerbil               | 829            | 1.758                              | 2.097                                 |                                                                                                            |                         | 85                                                                                                |                    |                                                                                                  | 4.769     |
| Other Rodents                  | 3.043          | 188                                | 3.334                                 | 70                                                                                                         |                         | 4                                                                                                 |                    |                                                                                                  | 6.639     |
| Rabbits                        | 1.240          | 1.155                              | 95.685                                |                                                                                                            |                         | 251                                                                                               |                    |                                                                                                  | 98.331    |
| Cats                           | 48             | 278                                | 379                                   |                                                                                                            |                         | 61                                                                                                |                    |                                                                                                  | 766       |
| Dogs                           | 242            | 1.093                              | 2.478                                 |                                                                                                            |                         | 151                                                                                               |                    |                                                                                                  | 3.964     |
| Ferrets                        | 44             | 86                                 |                                       |                                                                                                            |                         |                                                                                                   |                    |                                                                                                  | 130       |
| Other carnivores               | 88             | 3                                  | 383                                   |                                                                                                            |                         |                                                                                                   |                    |                                                                                                  | 474       |
| Horses, donkeys & cross-breeds | 912            | 266                                | 40                                    |                                                                                                            |                         | 52                                                                                                |                    |                                                                                                  | 1.270     |
| Pigs                           | 3.568          | 8.218                              | 3.257                                 | 8                                                                                                          |                         | 1.676                                                                                             |                    |                                                                                                  | 16.727    |
| Goats                          | 65             | 70                                 | 53                                    |                                                                                                            |                         | 35                                                                                                |                    |                                                                                                  | 223       |
| Sheep                          | 225            | 2.619                              | 714                                   |                                                                                                            |                         | 192                                                                                               |                    |                                                                                                  | 3.750     |
| Cattle                         | 2.074          | 2.452                              | 550                                   |                                                                                                            |                         | 356                                                                                               |                    |                                                                                                  | 5.432     |

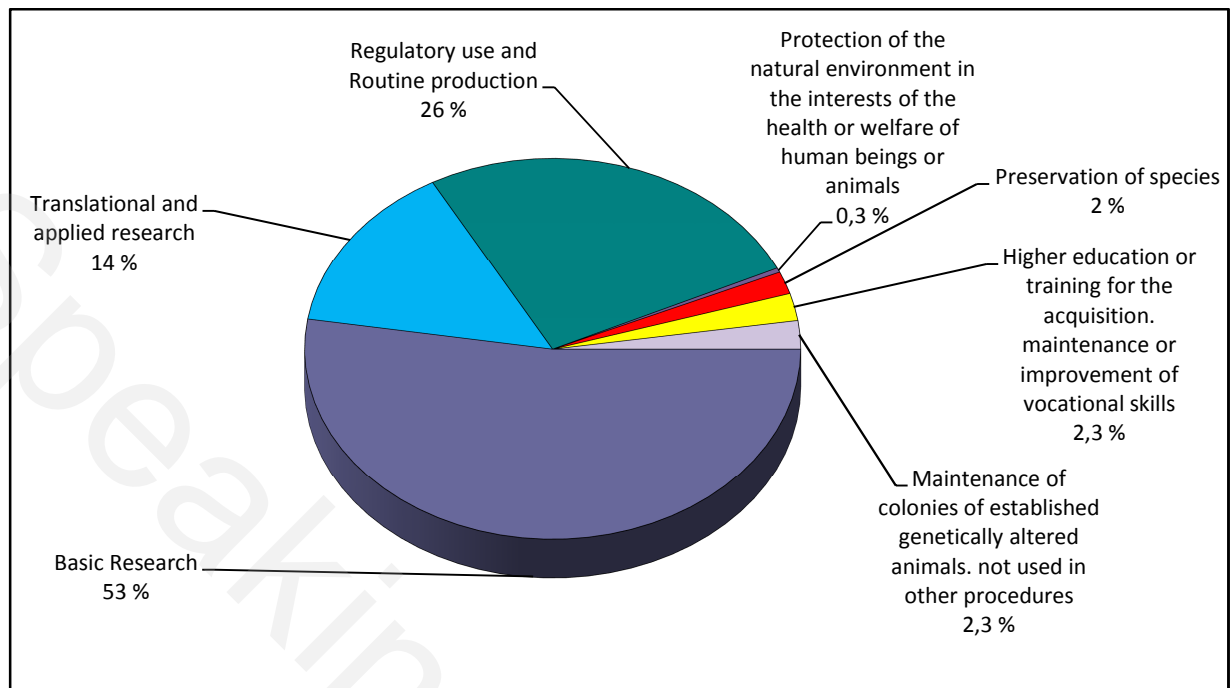
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|                          |                  |                |                |              |               |               |           |               |                  |
|--------------------------|------------------|----------------|----------------|--------------|---------------|---------------|-----------|---------------|------------------|
| Prosimians               | 117              |                |                |              |               |               |           |               | 117              |
| Marmoset and tamarins    | 101              | 2              | 9              |              |               | 1             |           |               | 113              |
| Cynomolgus monkey        | 60               | 242            | 1.756          |              |               |               |           |               | 2.058            |
| Rhesus monkey            | 23               | 38             | 24             |              |               | 1             |           |               | 86               |
| Vervets Chlorocebus spp. |                  | 18             |                |              |               |               |           |               | 18               |
| Baboons                  | 8                |                |                |              |               |               |           |               | 8                |
| Other Mammals            | 998              | 19             | 27             | 0            | 15            | 84            |           |               | 1.143            |
| Domestic fowl            | 11.541           | 5.344          | 10.851         | 1.277        | 471           | 369           |           |               | 29.853           |
| Other birds              | 10.154           | 4.641          | 520            | 890          | 61            | 274           | 14        |               | 16.554           |
| Reptiles                 | 146              |                | 300            |              | 0             | 8             |           |               | 454              |
| Rana                     |                  |                | 80             | 850          |               |               |           |               | 930              |
| Xenopus                  | 4.892            | 25             | 205            |              |               | 115           |           |               | 5.237            |
| Other Amphibians         | 532              |                | 72             | 2.053        | 12            | 6             |           |               | 2.675            |
| Zebra fish               | 151.733          | 1.237          | 23.425         | 515          |               | 1.314         |           |               | 178.224          |
| Other Fish               | 44.067           | 2.682          | 12.152         | 2.256        | 25.438        | 1.164         |           |               | 87.759           |
| <b>Total</b>             | <b>1.117.731</b> | <b>307.201</b> | <b>554.984</b> | <b>8.101</b> | <b>40.387</b> | <b>48.931</b> | <b>28</b> | <b>50.956</b> | <b>2.128.319</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*



Figure 3: Use of animals in procedures by purposes



*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

Table 10: Use of species in basic research purposes

|                                | Oncology | Cardio-vascular Blood and Lymphatic System | Nervous System | Respiratory System | Gastrointestinal System including Liver | Musculoskeletal System | Immune System | Urogenital/ Reproductive System | Sensory Organs (skin, eyes and ears) | Endocrine System/ Metabolism | Multisystemic | Ethology / Animal Behaviour / Animal Biology | Other basic research | Total          |
|--------------------------------|----------|--------------------------------------------|----------------|--------------------|-----------------------------------------|------------------------|---------------|---------------------------------|--------------------------------------|------------------------------|---------------|----------------------------------------------|----------------------|----------------|
| Mice                           | 80.977   | 71.994                                     | 128.423        | 21.737             | 24.337                                  | 10.510                 | 205.114       | 17.807                          | 15.640                               | 38.378                       | 133.083       | 2.221                                        | 92.275               | <b>842.496</b> |
| Rats                           | 977      | 5.160                                      | 18.537         | 1.402              | 1.279                                   | 1.801                  | 1.656         | 734                             | 261                                  | 1.341                        | 803           | 456                                          | 3.402                | <b>37.809</b>  |
| Guinea-Pigs                    | 24       |                                            |                | 128                |                                         | 77                     | 31            | 1                               | 216                                  |                              | 48            | 102                                          | 23                   | <b>650</b>     |
| Hamsters (Syrian)              |          |                                            |                |                    |                                         |                        |               | 26                              |                                      |                              |               |                                              |                      | <b>26</b>      |
| Mongolian gerbil               |          |                                            | 404            |                    |                                         |                        | 124           |                                 | 291                                  |                              |               |                                              | 10                   | <b>829</b>     |
| Other Rodents                  | 75       |                                            | 2              | 74                 |                                         |                        | 9             |                                 |                                      | 58                           | 78            | 2.743                                        | 4                    | <b>3.043</b>   |
| Rabbits                        | 44       | 160                                        | 7              | 4                  |                                         | 262                    | 145           | 1                               | 37                                   | 2                            | 39            | 9                                            | 530                  | <b>1.240</b>   |
| Cats                           |          |                                            | 2              |                    |                                         |                        |               | 14                              | 1                                    | 16                           |               | 5                                            | 10                   | <b>48</b>      |
| Dogs                           |          | 24                                         | 35             |                    | 13                                      | 102                    | 32            |                                 | 2                                    |                              |               |                                              | 34                   | <b>242</b>     |
| Ferrets                        |          |                                            | 30             |                    |                                         |                        |               |                                 |                                      |                              | 14            |                                              |                      | <b>44</b>      |
| Other carnivores               |          |                                            |                |                    |                                         |                        | 50            |                                 |                                      |                              |               | 33                                           | 5                    | <b>88</b>      |
| Horses, donkeys & cross-breeds |          |                                            |                | 292                | 4                                       | 31                     | 130           | 321                             | 3                                    | 57                           |               | 6                                            | 68                   | <b>912</b>     |
| Pigs                           | 75       | 335                                        | 70             | 225                | 220                                     | 188                    | 426           | 41                              |                                      | 133                          | 154           | 1.096                                        | 605                  | <b>3.568</b>   |
| Goats                          |          |                                            |                |                    |                                         |                        | 3             |                                 |                                      | 28                           |               | 31                                           | 3                    | <b>65</b>      |
| Sheep                          |          | 60                                         | 9              | 14                 | 7                                       | 59                     | 31            | 1                               |                                      |                              | 22            | 8                                            | 14                   | <b>225</b>     |

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|                       |               |                |                |               |               |               |                |               |               |                |                |               |                |                  |
|-----------------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|---------------|----------------|------------------|
| Cattle                |               | 1              | 5              |               | 118           | 3             | 108            | 169           |               | 729            | 271            | 178           | 492            | <b>2.074</b>     |
| Prosimians            |               |                | 21             |               |               |               |                |               | 9             |                |                | 87            |                | <b>117</b>       |
| Marmoset and tamarins |               |                | 6              | 60            |               |               |                |               |               | 23             | 12             |               |                | <b>101</b>       |
| Cynomolgus monkey     |               |                | 54             |               |               |               | 6              |               |               |                |                |               |                | <b>60</b>        |
| Rhesus monkey         |               |                | 18             |               |               |               |                |               |               |                | 5              |               |                | <b>23</b>        |
| Baboons               |               |                |                |               |               |               | 8              |               |               |                |                |               |                | <b>8</b>         |
| Other Mammals         |               |                | 131            |               |               |               | 6              |               | 33            | 12             | 9              | 726           | 81             | <b>998</b>       |
| Domestic fowl         |               |                | 18             |               | 4.657         |               | 286            |               | 291           | 758            | 1.198          | 944           | 3.389          | <b>11.541</b>    |
| Other birds           |               | 27             | 183            |               |               | 2             | 398            |               | 8             | 16             |                | 7.894         | 1.626          | <b>10.154</b>    |
| Reptiles              |               | 1              | 144            |               |               |               |                |               |               |                |                | 1             |                | <b>146</b>       |
| Xenopus               |               | 21             | 885            |               |               | 254           |                | 242           |               | 860            | 137            | 20            | 2.473          | <b>4.892</b>     |
| Other Am-<br>phibians |               |                |                |               |               | 414           |                |               |               |                |                | 118           |                | <b>532</b>       |
| Zebra fish            | 672           | 23.847         | 18.791         | 419           |               | 5.590         | 11.043         | 4.936         | 3.855         | 74.478         | 1.798          | 1.004         | 5.300          | <b>151.733</b>   |
| Other Fish            | 1.992         | 177            | 405            |               | 462           | 35            | 501            | 1.635         | 7.952         | 254            | 192            | 17.546        | 12.916         | <b>44.067</b>    |
| <b>Total</b>          | <b>84.836</b> | <b>101.807</b> | <b>168.180</b> | <b>24.355</b> | <b>31.097</b> | <b>19.328</b> | <b>220.107</b> | <b>25.928</b> | <b>28.599</b> | <b>117.143</b> | <b>137.863</b> | <b>35.228</b> | <b>123.260</b> | <b>1.117.731</b> |
| <b>%</b>              | <b>7.59%</b>  | <b>9.11%</b>   | <b>15.05%</b>  | <b>2.18%</b>  | <b>2.78%</b>  | <b>1.73%</b>  | <b>19.69%</b>  | <b>2.32%</b>  | <b>2.56%</b>  | <b>10.48%</b>  | <b>12.33%</b>  | <b>3.15%</b>  | <b>11.03%</b>  | <b>100.00%</b>   |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

Table 11: Use of species in translational and applied research purposes

|                                | Human Cancer | Human Infectious Disorders | Human Cardiovascular Disorders | Human Nervous and Mental Disorders | Human Respiratory Disorders | Human Gastrointestinal Disorders including Liver | Human Musculoskeletal Disorders | Human Immune Disorders | Human Urogenital/Reproductive Disorders | Human Sensory Organ Disorders (skin, eyes and ears) | Human Endocrine/Metabolism Disorders | Other Human Disorders | Animal Diseases and Disorders | Animal Welfare | Diagnosis of diseases | Plant diseases | Non-regulatory toxicology and ecotoxicology | Total   |
|--------------------------------|--------------|----------------------------|--------------------------------|------------------------------------|-----------------------------|--------------------------------------------------|---------------------------------|------------------------|-----------------------------------------|-----------------------------------------------------|--------------------------------------|-----------------------|-------------------------------|----------------|-----------------------|----------------|---------------------------------------------|---------|
| Mice                           | 113.540      | 19.623                     | 10.926                         | 31.257                             | 13.935                      | 8.018                                            | 2.066                           | 13.708                 | 2.326                                   | 3.414                                               | 9.310                                | 1.395                 | 4.447                         | 375            | 1.628                 |                | 3.027                                       | 238.995 |
| Rats                           | 1.370        | 117                        | 2.562                          | 9.778                              | 1.570                       | 2.243                                            | 1.310                           | 891                    | 1.320                                   | 923                                                 | 5.155                                | 2.699                 | 677                           |                | 239                   |                | 2.719                                       | 33.573  |
| Guinea-Pigs                    | 12           | 123                        | 217                            |                                    | 555                         |                                                  |                                 |                        |                                         | 183                                                 |                                      |                       |                               |                | 366                   |                | 24                                          | 1.480   |
| Hamsters (Syrian)              | 72           | 546                        |                                | 47                                 |                             |                                                  |                                 |                        | 36                                      |                                                     |                                      |                       |                               |                |                       |                |                                             | 701     |
| Mongolian gerbil               |              | 1.131                      |                                |                                    |                             |                                                  |                                 |                        |                                         |                                                     |                                      |                       | 627                           |                |                       |                |                                             | 1.758   |
| Other Rodents                  |              | 173                        |                                |                                    |                             |                                                  |                                 |                        |                                         |                                                     |                                      |                       | 15                            |                |                       |                |                                             | 188     |
| Rabbits                        | 78           | 57                         | 172                            | 21                                 |                             |                                                  | 120                             |                        |                                         | 81                                                  |                                      | 8                     | 381                           |                | 220                   | 17             |                                             | 1.155   |
| Cats                           |              |                            |                                |                                    |                             |                                                  |                                 |                        |                                         |                                                     |                                      |                       | 278                           |                |                       |                |                                             | 278     |
| Dogs                           | 28           |                            | 24                             | 128                                | 21                          |                                                  |                                 | 60                     |                                         | 2                                                   | 50                                   |                       | 752                           |                | 11                    |                | 17                                          | 1.093   |
| Ferrets                        |              | 63                         |                                |                                    |                             |                                                  |                                 |                        |                                         |                                                     |                                      |                       | 23                            |                |                       |                |                                             | 86      |
| Other carnivores               |              |                            |                                |                                    |                             |                                                  |                                 |                        |                                         |                                                     |                                      |                       |                               | 3              |                       |                |                                             | 3       |
| Horses, donkeys & cross-breeds |              |                            |                                |                                    |                             |                                                  |                                 | 6                      |                                         |                                                     |                                      |                       | 151                           |                | 109                   |                |                                             | 266     |
| Pigs                           | 107          | 4                          | 388                            | 65                                 | 40                          | 98                                               | 48                              | 42                     | 35                                      | 35                                                  | 109                                  | 83                    | 3.161                         | 3.752          | 243                   |                | 8                                           | 8.218   |

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|                                                       |         |        |        |        |        |        |       |        |       |       |        |       |        |       |       |       |       |         |
|-------------------------------------------------------|---------|--------|--------|--------|--------|--------|-------|--------|-------|-------|--------|-------|--------|-------|-------|-------|-------|---------|
| Goats                                                 |         | 15     |        |        |        |        |       |        |       |       |        |       | 53     |       | 2     |       |       | 70      |
| Sheep                                                 | 11      | 25     | 113    | 7      |        |        | 28    | 2      |       |       |        |       | 1.848  |       | 585   |       |       | 2.619   |
| Cattle                                                |         | 9      |        |        |        |        |       |        |       |       |        |       | 1.972  | 454   | 3     |       | 14    | 2.452   |
| Marmoset and tamarins                                 |         |        |        |        |        |        |       |        | 2     |       |        |       |        |       |       |       |       | 2       |
| Cynomolgus monkey                                     | 12      | 2      | 31     | 15     | 3      |        |       | 39     | 54    | 2     | 12     | 38    |        |       |       |       | 34    | 242     |
| Rhesus monkey                                         |         | 36     |        |        |        |        |       |        |       |       | 2      |       |        |       |       |       |       | 38      |
| Vervets Chlorocebus spp.                              |         | 18     |        |        |        |        |       |        |       |       |        |       |        |       |       |       |       | 18      |
| Other species of Old World Monkeys (Cercopithecoidea) |         | 18     |        |        |        |        |       |        |       |       |        |       |        |       |       |       |       | 18      |
| Other Mammals                                         |         | 1      |        |        |        |        |       |        |       |       |        |       | 18     |       |       |       |       | 19      |
| Domestic fowl                                         |         | 91     |        |        |        |        |       |        |       |       |        |       | 3.308  | 1.939 | 6     |       |       | 5.344   |
| Other birds                                           |         |        |        |        |        |        |       |        |       |       |        |       | 4.274  | 367   |       |       |       | 4.641   |
| Xenopus                                               |         |        |        | 25     |        |        |       |        |       |       |        |       |        |       |       |       |       | 25      |
| Zebra fish                                            |         |        | 164    |        |        |        |       |        |       | 1.073 |        |       |        |       |       |       |       | 1.237   |
| Other Fish                                            |         |        |        |        |        |        |       |        |       |       |        |       | 1.132  | 312   |       |       | 1.238 | 2.682   |
| Total                                                 | 115.230 | 22.052 | 14.597 | 41.343 | 16.124 | 10.359 | 3.572 | 14.748 | 3.773 | 5.713 | 14.638 | 4.223 | 23.117 | 7.202 | 3.412 | 17    | 7.081 | 307.201 |
| %                                                     | 37.51%  | 7.18%  | 4.75%  | 13.46% | 5.25%  | 3.37%  | 1.16% | 4.80%  | 1.23% | 1.86% | 4.76%  | 1.37% | 7.53%  | 2.34% | 1.11% | 0.01% | 2.31% | 100.00% |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

**Table 12: Regulatory use of animals and routine production purposes**

|                                   | Quality control<br>(incl batch safety<br>and potency<br>testing) | Other efficacy<br>and tolerance<br>testing | Toxicity and<br>other safety<br>testing includ-<br>ing pharma-<br>cology | Routine<br>production | Total          |
|-----------------------------------|------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------|-----------------------|----------------|
| Mice                              | 97.551                                                           | 35.714                                     | 84.875                                                                   | 4.057                 | 222.197        |
| Rats                              | 70.464                                                           | 3.911                                      | 87.127                                                                   | 704                   | 162.206        |
| Guinea-Pigs                       | 7.185                                                            | 20                                         | 4.588                                                                    | 33                    | 11.826         |
| Hamsters (Syrian)                 | 325                                                              |                                            | 39                                                                       |                       | 364            |
| Mongolian gerbil                  |                                                                  |                                            | 1.930                                                                    | 167                   | 2.097          |
| Other Rodents                     |                                                                  | 30                                         | 3.304                                                                    |                       | 3.334          |
| Rabbits                           | 3.208                                                            | 163                                        | 4.153                                                                    | 88.161                | 95.685         |
| Cats                              | 23                                                               | 113                                        | 216                                                                      | 27                    | 379            |
| Dogs                              |                                                                  | 346                                        | 2.129                                                                    | 3                     | 2.478          |
| Other carnivores                  | 243                                                              | 107                                        | 33                                                                       |                       | 383            |
| Horses, donkeys &<br>cross-breeds |                                                                  | 10                                         | 30                                                                       |                       | 40             |
| Pigs                              | 386                                                              | 1.963                                      | 873                                                                      | 35                    | 3.257          |
| Goats                             |                                                                  |                                            |                                                                          | 53                    | 53             |
| Sheep                             |                                                                  |                                            | 64                                                                       | 650                   | 714            |
| Cattle                            | 82                                                               | 89                                         | 259                                                                      | 120                   | 550            |
| Marmoset and<br>tamarins          |                                                                  |                                            | 9                                                                        |                       | 9              |
| Cynomolgus mon-<br>key            |                                                                  |                                            | 1.756                                                                    |                       | 1.756          |
| Rhesus monkey                     |                                                                  |                                            | 24                                                                       |                       | 24             |
| Other Mammals                     |                                                                  |                                            | 8                                                                        | 19                    | 27             |
| Domestic fowl                     | 7.030                                                            | 2.990                                      | 358                                                                      | 473                   | 10.851         |
| Other birds                       |                                                                  |                                            | 520                                                                      |                       | 520            |
| Reptiles                          |                                                                  |                                            |                                                                          | 300                   | 300            |
| Rana                              |                                                                  |                                            | 80                                                                       |                       | 80             |
| Xenopus                           |                                                                  |                                            | 205                                                                      |                       | 205            |
| Other Amphibians                  |                                                                  |                                            | 72                                                                       |                       | 72             |
| Zebra fish                        |                                                                  |                                            | 23.425                                                                   |                       | 23.425         |
| Other Fish                        |                                                                  |                                            | 12.152                                                                   |                       | 12.152         |
| <b>Total</b>                      | <b>186.497</b>                                                   | <b>45.456</b>                              | <b>228.229</b>                                                           | <b>94.802</b>         | <b>554.984</b> |
| <b>%</b>                          | <b>33.60%</b>                                                    | <b>8.19%</b>                               | <b>41.12%</b>                                                            | <b>17.08%</b>         | <b>100.00%</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 13: Use of animals in quality control purposes**

|                   | Batch safety testing | Pyrogenicity testing | Batch potency testing | Other quality controls | Total          |
|-------------------|----------------------|----------------------|-----------------------|------------------------|----------------|
| Mice              | 18.619               |                      | 78.932                |                        | 97.551         |
| Rats              | 369                  |                      | 70.095                |                        | 70.464         |
| Guinea-Pigs       | 1.131                |                      | 6.051                 | 3                      | 7.185          |
| Hamsters (Syrian) |                      |                      | 325                   |                        | 325            |
| Rabbits           | 178                  | 347                  | 67                    | 2.616                  | 3.208          |
| Cats              | 23                   |                      |                       |                        | 23             |
| Other carnivores  | 88                   |                      | 155                   |                        | 243            |
| Pigs              | 386                  |                      | 0                     |                        | 386            |
| Cattle            | 20                   |                      | 62                    |                        | 82             |
| Domestic fowl     | 6.813                |                      | 217                   |                        | 7.030          |
| <b>Total</b>      | <b>27.627</b>        | <b>347</b>           | <b>155.904</b>        | <b>2.619</b>           | <b>186.497</b> |
| <b>%</b>          | <b>14.81%</b>        | <b>0.19%</b>         | <b>83.60%</b>         | <b>1.40%</b>           | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

**Table 14: Use of animals in routine production purposes**

|                  | Blood based products | Monoclonal antibodies | Other product types | Total          |
|------------------|----------------------|-----------------------|---------------------|----------------|
| Mice             |                      | 2.147                 | 1.910               | 4.057          |
| Rats             |                      | 319                   | 385                 | 704            |
| Guinea-Pigs      | 20                   | 12                    | 1                   | 33             |
| Mongolian gerbil |                      |                       | 167                 | 167            |
| Rabbits          | 86.977               | 14                    | 1.170               | 88.161         |
| Cats             | 6                    |                       | 21                  | 27             |
| Dogs             | 3                    |                       |                     | 3              |
| Pigs             | 20                   |                       | 15                  | 35             |
| Goats            | 48                   |                       | 5                   | 53             |
| Sheep            | 632                  |                       | 18                  | 650            |
| Cattle           | 100                  |                       | 20                  | 120            |
| Other Mammals    |                      |                       | 19                  | 19             |
| Domestic fowl    | 433                  |                       | 40                  | 473            |
| Reptiles         |                      |                       | 300                 | 300            |
| <b>Total</b>     | <b>88.239</b>        | <b>2.492</b>          | <b>4.071</b>        | <b>94.802</b>  |
| <b>%</b>         | <b>0.93%</b>         | <b>0.03%</b>          | <b>0.04%</b>        | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

Table 15: Use of animals in toxicity and other safety testing by test type purposes

|                                | Acute and sub-acute | Skin irritation/corrosion | Skin sensitisation | Repeated dose toxicity | Carcinogenicity | Genotoxicity | Reproductive toxicity | Developmental toxicity | Neurotoxicity | Kinetics | Pharmacodynamics | Ecotoxicity | Safety testing in food and feed area | Target animal safety | Eye irritation/corrosion | Other toxicity/safety testing | Total  |
|--------------------------------|---------------------|---------------------------|--------------------|------------------------|-----------------|--------------|-----------------------|------------------------|---------------|----------|------------------|-------------|--------------------------------------|----------------------|--------------------------|-------------------------------|--------|
| Mice                           | 1.172               |                           | 4.563              | 4.231                  | 719             | 1.535        | 102                   |                        | 80            | 16.391   | 54.838           |             | 15                                   | 188                  |                          | 1.041                         | 84.875 |
| Rats                           | 2.994               |                           |                    | 12.262                 | 80              | 1.208        | 13.436                | 11.426                 | 86            | 12.010   | 32.284           |             |                                      |                      |                          | 1.341                         | 87.127 |
| Guinea-Pigs                    | 16                  |                           | 4.026              |                        |                 |              |                       |                        |               | 67       | 479              |             |                                      |                      |                          |                               | 4.588  |
| Hamsters (Syrian)              |                     | 24                        | 15                 |                        |                 |              |                       |                        |               |          |                  |             |                                      |                      |                          |                               | 39     |
| Mongolian gerbil               |                     |                           |                    |                        |                 |              |                       |                        |               |          | 1.930            |             |                                      |                      |                          |                               | 1.930  |
| Other Rodents                  | 70                  |                           |                    |                        |                 |              |                       |                        |               |          |                  | 180         |                                      | 3.054                |                          |                               | 3.304  |
| Rabbits                        | 64                  | 730                       |                    | 287                    |                 |              | 431                   | 300                    |               | 365      | 1.664            |             |                                      |                      | 200                      | 112                           | 4.153  |
| Cats                           |                     |                           |                    |                        |                 |              |                       |                        |               | 187      |                  |             |                                      | 29                   |                          |                               | 216    |
| Dogs                           | 3                   |                           |                    | 690                    |                 |              |                       |                        |               | 855      | 509              |             |                                      | 54                   |                          | 18                            | 2.129  |
| Other carnivores               |                     |                           |                    |                        |                 |              |                       |                        |               |          |                  |             |                                      | 33                   |                          |                               | 33     |
| Horses, donkeys & cross-breeds |                     |                           |                    |                        |                 |              |                       |                        |               | 30       |                  |             |                                      |                      |                          |                               | 30     |
| Pigs                           | 4                   | 4                         |                    | 174                    |                 |              |                       |                        |               | 227      | 374              |             |                                      | 78                   |                          | 12                            | 873    |
| Sheep                          |                     |                           |                    |                        |                 |              |                       |                        |               | 40       |                  |             | 17                                   |                      |                          | 7                             | 64     |
| Cattle                         |                     |                           |                    |                        |                 |              |                       |                        |               | 82       | 15               |             |                                      | 65                   |                          | 97                            | 259    |
| Marmoset and tamarins          |                     |                           |                    |                        |                 |              |                       |                        |               | 9        |                  |             |                                      |                      |                          |                               | 9      |
| Cynomolgus monkey              | 24                  |                           |                    | 1.304                  |                 |              | 31                    |                        |               | 374      | 23               |             |                                      |                      |                          |                               | 1.756  |
| Rhesus monkey                  |                     |                           |                    | 24                     |                 |              |                       |                        |               |          |                  |             |                                      |                      |                          |                               | 24     |



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|                  |              |              |              |               |              |              |               |               |              |               |               |               |              |              |              |              |                |
|------------------|--------------|--------------|--------------|---------------|--------------|--------------|---------------|---------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|----------------|
| Other Mammals    | 8            |              |              |               |              |              |               |               |              |               |               |               |              |              |              |              | 8              |
| Domestic fowl    |              |              |              |               |              |              |               |               | 20           |               |               |               | 338          |              |              |              | 358            |
| Other birds      | 159          |              |              |               |              |              |               |               |              |               | 241           | 54            | 66           |              |              |              | 520            |
| Rana             |              |              |              |               |              |              |               |               |              |               | 80            |               |              |              |              |              | 80             |
| Xenopus          |              |              |              |               |              |              |               |               |              |               | 205           |               |              |              |              |              | 205            |
| Other Amphibians |              |              |              |               |              |              |               |               |              |               | 72            |               |              |              |              |              | 72             |
| Zebra fish       | 100          |              |              |               |              |              | 6.190         |               |              |               | 17.135        |               |              |              |              |              | 23.425         |
| Other Fish       | 2.641        |              |              |               |              |              |               |               |              |               | 9.511         |               |              |              |              |              | 12.152         |
| <b>Total</b>     | <b>7.255</b> | <b>758</b>   | <b>8.604</b> | <b>18.972</b> | <b>799</b>   | <b>2.743</b> | <b>14.000</b> | <b>17.916</b> | <b>166</b>   | <b>30.657</b> | <b>92.116</b> | <b>27.424</b> | <b>86</b>    | <b>3.905</b> | <b>200</b>   | <b>2.628</b> | <b>228.229</b> |
| <b>%</b>         | <b>0.03%</b> | <b>0.00%</b> | <b>0.04%</b> | <b>0.08%</b>  | <b>0.00%</b> | <b>0.01%</b> | <b>0.06%</b>  | <b>0.08%</b>  | <b>0.00%</b> | <b>0.13%</b>  | <b>0.40%</b>  | <b>0.12%</b>  | <b>0.00%</b> | <b>0.02%</b> | <b>0.00%</b> | <b>0.01%</b> | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

Table 16: Use of animals in repeated dose toxicity testing methods

|                   | up to 28 days | 29 - 90 days  | > 90 days    | Total          |
|-------------------|---------------|---------------|--------------|----------------|
| Mice              | 3.705         | 448           | 78           | 4.231          |
| Rats              | 7.927         | 3.500         | 835          | 12.262         |
| Rabbits           | 178           | 16            | 93           | 287            |
| Dogs              | 466           | 64            | 160          | 690            |
| Pigs              | 142           |               | 32           | 174            |
| Cynomolgus monkey | 282           | 439           | 583          | 1.304          |
| Rhesus monkey     |               | 24            |              | 24             |
| <b>Total</b>      | <b>12.700</b> | <b>4.491</b>  | <b>1.781</b> | <b>18.972</b>  |
| <b>%</b>          | <b>66.94%</b> | <b>23.67%</b> | <b>9.39%</b> | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act)

Table 17: Use of animals in acute and subacute toxicity testing methods

|                   | LD50, LC50    | Other lethal methods | Non lethal methods | Total          |
|-------------------|---------------|----------------------|--------------------|----------------|
| Mice              | 322           | 59                   | 791                | 1.172          |
| Rats              | 1.131         | 242                  | 1.621              | 2.994          |
| Guinea-Pigs       | 10            |                      | 6                  | 16             |
| Other Rodents     | 70            |                      |                    | 70             |
| Rabbits           |               |                      | 64                 | 64             |
| Dogs              |               |                      | 3                  | 3              |
| Pigs              |               |                      | 4                  | 4              |
| Cynomolgus monkey |               |                      | 24                 | 24             |
| Other birds       |               |                      | 159                | 159            |
| Zebra fish        | 96            |                      | 4                  | 100            |
| Other Fish        | 2.641         |                      |                    | 2.641          |
| <b>Total</b>      | <b>4.278</b>  | <b>301</b>           | <b>2.676</b>       | <b>7.255</b>   |
| <b>%</b>          | <b>58.97%</b> | <b>4.15%</b>         | <b>36.88%</b>      | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

Table 18: Use of animals in ecotoxicity testing methods

|                  | Acute toxicity | Chronic toxicity | Reproductive ecotoxicity | Endocrine activity | Bioaccumulation | Other ecotoxicity | Total          |
|------------------|----------------|------------------|--------------------------|--------------------|-----------------|-------------------|----------------|
| Other Rodents    |                |                  |                          |                    |                 | 180               | 180            |
| Other birds      | 241            |                  |                          |                    |                 |                   | 241            |
| Rana             | 80             |                  |                          |                    |                 |                   | 80             |
| Xenopus          | 205            |                  |                          |                    |                 |                   | 205            |
| Other Amphibians | 72             |                  |                          |                    |                 |                   | 72             |
| Zebra fish       | 2.804          | 7.758            | 1.465                    | 4.640              | 468             |                   | 17.135         |
| Other Fish       | 2.787          | 3.049            |                          | 1.300              | 2.363           | 12                | 9.511          |
| <b>Total</b>     | <b>6.189</b>   | <b>10.807</b>    | <b>1.465</b>             | <b>5.940</b>       | <b>2.831</b>    | <b>192</b>        | <b>27.424</b>  |
| <b>%</b>         | <b>22.57%</b>  | <b>39.41%</b>    | <b>5.34%</b>             | <b>21.66%</b>      | <b>10.32%</b>   | <b>0.70%</b>      | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

## 5. Use of species and severity

Table 19: Use of species and severity in total

|                                | Non-recovery | %       | Mild [up to and including] | %      | Moderate | %      | Severe | %      | Total     |
|--------------------------------|--------------|---------|----------------------------|--------|----------|--------|--------|--------|-----------|
| Mice                           | 119.921      | 8.56%   | 824.290                    | 58.84% | 362.401  | 25.87% | 94.359 | 6.74%  | 1.400.971 |
| Rats                           | 14.052       | 5.75%   | 120.208                    | 49.20% | 105.708  | 43.26% | 4.371  | 1.79%  | 244.339   |
| Guinea-Pigs                    | 540          | 3.81%   | 8.586                      | 60.53% | 1.209    | 8.52%  | 3.849  | 27.14% | 14.184    |
| Hamsters (Syrian)              | 5            | 0.45%   | 1.000                      | 90.83% | 96       | 8.72%  |        |        | 1.101     |
| Hamsters (Chinese)             | 2            | 100.00% |                            |        |          |        |        |        | 2         |
| Mongolian gerbil               | 198          | 4.15%   | 2.776                      | 58.21% | 1.772    | 37.16% | 23     | 0.48%  | 4.769     |
| Other Rodents                  | 4            | 0.06%   | 6.442                      | 97.03% | 63       | 0.95%  | 130    | 1.96%  | 6.639     |
| Rabbits                        | 231          | 0.23%   | 57.648                     | 58.63% | 2.465    | 2.51%  | 37.987 | 38.63% | 98.331    |
| Cats                           |              |         | 674                        | 87.99% | 69       | 9.01%  | 23     | 3.00%  | 766       |
| Dogs                           |              |         | 3.518                      | 88.75% | 406      | 10.24% | 40     | 1.01%  | 3.964     |
| Ferrets                        | 20           | 15.38%  | 56                         | 43.08% | 49       | 37.69% | 5      | 3.85%  | 130       |
| Other carnivores               |              |         | 270                        | 56.96% | 204      | 43.04% |        |        | 474       |
| Horses, donkeys & cross-breeds | 19           | 1.50%   | 1.230                      | 96.85% | 20       | 1.57%  | 1      | 0.08%  | 1.270     |
| Pigs                           | 1.945        | 11.63%  | 11.734                     | 70.15% | 2.621    | 15.67% | 427    | 2.55%  | 16.727    |
| Goats                          |              |         | 162                        | 72.65% | 61       | 27.35% |        |        | 223       |
| Sheep                          | 163          | 4.35%   | 2.850                      | 76.00% | 719      | 19.17% | 18     | 0.48%  | 3.750     |
| Cattle                         | 4            | 0.07%   | 4.852                      | 89.32% | 511      | 9.41%  | 65     | 1.20%  | 5.432     |

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|                                                       |                |        |                  |         |                |        |                |         |                  |
|-------------------------------------------------------|----------------|--------|------------------|---------|----------------|--------|----------------|---------|------------------|
| Prosimians                                            |                |        | 117              | 100.00% |                |        |                |         | 117              |
| Marmoset and tamarins                                 | 32             | 28.32% | 42               | 37.17%  | 39             | 34.51% |                |         | 113              |
| Cynomolgus monkey                                     | 3              | 0.15%  | 958              | 46.55%  | 1.097          | 53.30% |                |         | 2.058            |
| Rhesus monkey                                         |                |        | 51               | 59.30%  | 35             | 40.70% |                |         | 86               |
| Vervets Chlorocebus spp.                              |                |        | 18               | 100.00% |                |        |                |         | 18               |
| Baboons                                               |                |        |                  |         |                |        | 8              | 100.00% | 8                |
| Other species of Old World Monkeys (Cercopithecoidea) |                |        | 18               | 100.00% |                |        |                |         | 18               |
| Other Mammals                                         | 19             | 1.66%  | 982              | 85.91%  | 126            | 11.02% | 16             | 1.40%   | 1.143            |
| Domestic fowl                                         | 715            | 2.40%  | 26.271           | 88.00%  | 1.625          | 5.44%  | 1.242          | 4.16%   | 29.853           |
| Other birds                                           | 665            | 4.02%  | 13.581           | 82.04%  | 2.223          | 13.43% | 85             | 0.51%   | 16.554           |
| Reptiles                                              | 33             | 7.27%  | 317              | 69.82%  | 104            | 22.91% |                |         | 454              |
| Rana                                                  | 850            | 91.40% |                  |         |                |        | 80             | 8.60%   | 930              |
| Xenopus                                               | 475            | 9.07%  | 4.381            | 83.65%  | 174            | 3.32%  | 207            | 3.95%   | 5.237            |
| Other Amphibians                                      | 550            | 20.56% | 2.125            | 79.44%  |                |        |                |         | 2.675            |
| Zebra fish                                            | 1.888          | 1.06%  | 155.988          | 87.52%  | 11.229         | 6.30%  | 9.119          | 5.12%   | 178.224          |
| Other Fish                                            | 4.476          | 5.10%  | 73.333           | 83.56%  | 4.617          | 5.26%  | 5.333          | 6.08%   | 87.759           |
| <b>Total</b>                                          | <b>146.810</b> |        | <b>1.324.478</b> |         | <b>499.643</b> |        | <b>157.388</b> |         | <b>2.128.319</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

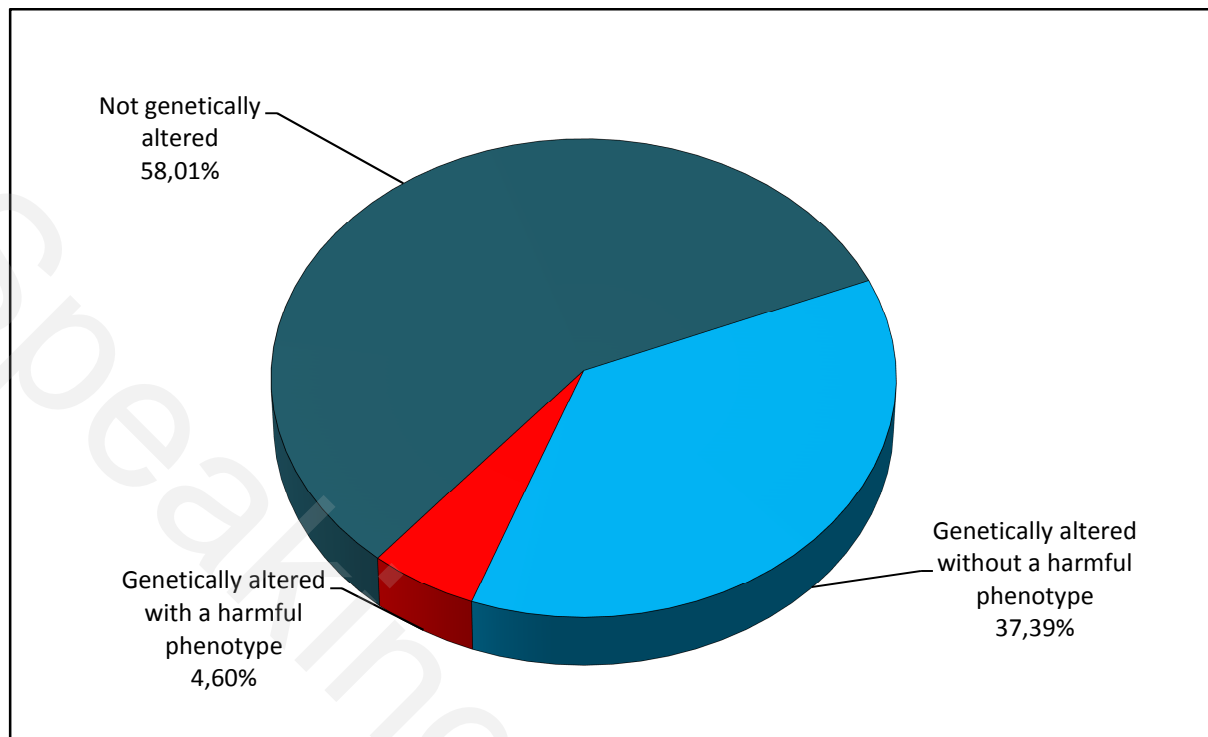
## 6. Use of species and genetic status

Table 20: Use of species and genetic status in total

|                                    | Not genetically altered | Genetically altered without a harmful phenotype | Genetically altered with a harmful phenotype | Total            |
|------------------------------------|-------------------------|-------------------------------------------------|----------------------------------------------|------------------|
| Mice                               | 961.706                 | 908.012                                         | 123.031                                      | 1.992.749        |
| Rats                               | 305.565                 | 8.303                                           | 3.489                                        | 317.357          |
| Guinea-Pigs                        | 14.760                  |                                                 |                                              | 14.760           |
| Hamsters (Syrian)                  | 1.173                   |                                                 |                                              | 1.173            |
| Hamsters (Chinese)                 | 8                       |                                                 |                                              | 8                |
| Mongolian gerbil                   | 5.779                   |                                                 |                                              | 5.779            |
| Other Rodents                      | 6.989                   |                                                 |                                              | 6.989            |
| Rabbits                            | 99.014                  | 23                                              | 47                                           | 99.084           |
| Cats                               | 766                     |                                                 |                                              | 766              |
| Dogs                               | 3.977                   |                                                 |                                              | 3.977            |
| Ferrets                            | 136                     |                                                 |                                              | 136              |
| Other carnivores                   | 474                     |                                                 |                                              | 474              |
| Horses, donkeys & cross-breeds     | 1.317                   |                                                 |                                              | 1.317            |
| Pigs                               | 17.084                  | 240                                             | 110                                          | 17.434           |
| Goats                              | 271                     |                                                 |                                              | 271              |
| Sheep                              | 3.781                   |                                                 |                                              | 3.781            |
| Cattle                             | 5.432                   |                                                 |                                              | 5.432            |
| Prosimians                         | 117                     |                                                 |                                              | 117              |
| Marmoset and tamarins              | 126                     |                                                 |                                              | 126              |
| Cynomolgus monkey                  | 2.074                   |                                                 |                                              | 2.074            |
| Rhesus monkey                      | 97                      |                                                 |                                              | 97               |
| Vervets Chlorocebus spp.           | 21                      |                                                 |                                              | 21               |
| Baboons                            | 9                       |                                                 |                                              | 9                |
| Other species of Old World Monkeys | 18                      |                                                 |                                              | 18               |
| Other Mammals                      | 1.267                   |                                                 |                                              | 1.267            |
| Domestic fowl                      | 39.826                  | 339                                             |                                              | 40.165           |
| Other birds                        | 17.625                  |                                                 |                                              | 17.625           |
| Reptiles                           | 722                     |                                                 |                                              | 722              |
| Rana                               | 932                     |                                                 |                                              | 932              |
| Xenopus                            | 6.041                   | 52                                              |                                              | 6.093            |
| Other Amphibians                   | 2.917                   | 279                                             |                                              | 3.196            |
| Zebra fish                         | 59.912                  | 136.132                                         | 3.947                                        | 199.991          |
| Other Fish                         | 95.990                  | 14.124                                          | 532                                          | 110.646          |
| <b>Total</b>                       | <b>1.655.926</b>        | <b>1.067.504</b>                                | <b>131.156</b>                               | <b>2.854.586</b> |
| <b>%</b>                           | <b>58.01%</b>           | <b>37,39%</b>                                   | <b>4.60%</b>                                 | <b>100.00%</b>   |

Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (includes re-use)

Figure 4: Use of animals: genetic status



*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (includes re-use)*

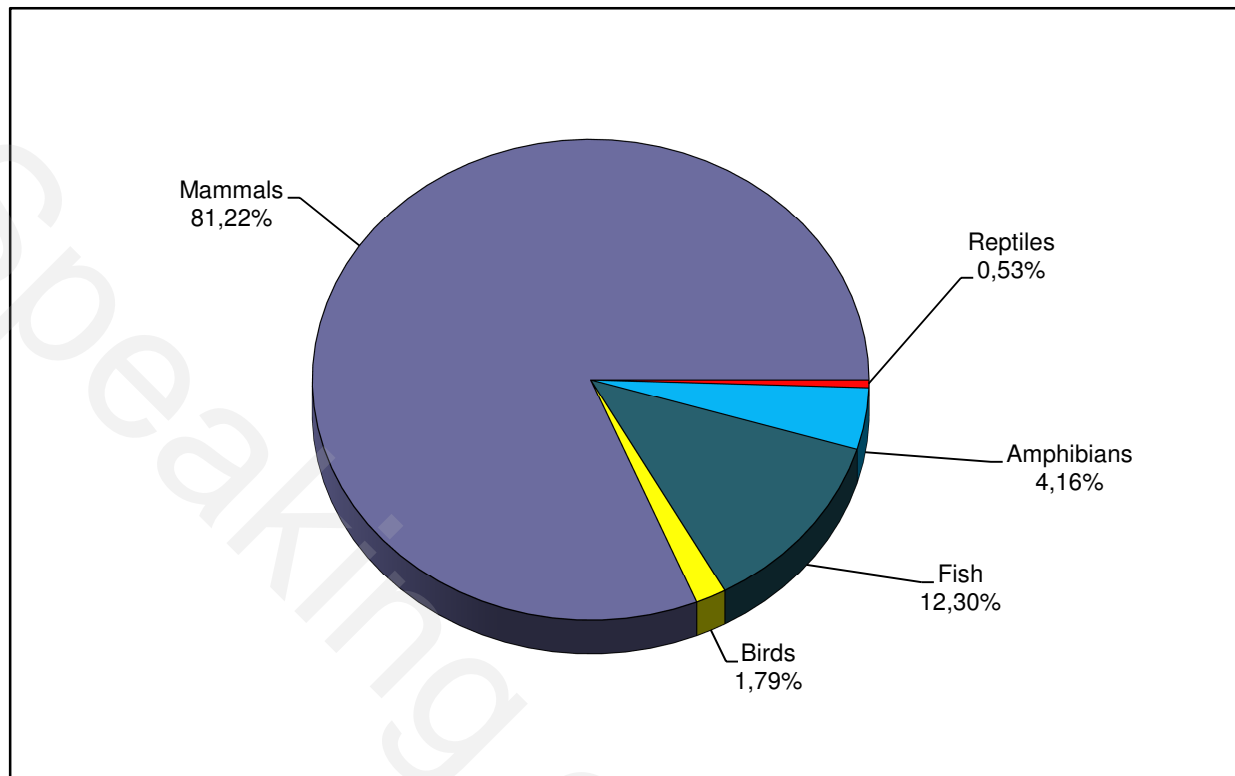
## 7. Use of Species and re-use

Table 21: Use of species and re-use in total

|                                    | (Naive) First use | Re-uses       | Total            |
|------------------------------------|-------------------|---------------|------------------|
| Mice                               | 1.959.169         | 33.580        | <b>1.992.749</b> |
| Rats                               | 312.654           | 4.703         | <b>317.357</b>   |
| Guinea-Pigs                        | 14.569            | 191           | <b>14.760</b>    |
| Hamsters (Syrian)                  | 1.171             | 2             | <b>1.173</b>     |
| Hamsters (Chinese)                 | 8                 |               | <b>8</b>         |
| Mongolian gerbil                   | 5.365             | 414           | <b>5.779</b>     |
| Other Rodents                      | 6.890             | 99            | <b>6.989</b>     |
| Rabbits                            | 95.736            | 3.348         | <b>99.084</b>    |
| Cats                               | 485               | 281           | <b>766</b>       |
| Dogs                               | 2.008             | 1.969         | <b>3.977</b>     |
| Ferrets                            | 122               | 14            | <b>136</b>       |
| Other carnivores                   | 447               | 27            | <b>474</b>       |
| Horses, donkeys & cross-breeds     | 1.017             | 300           | <b>1.317</b>     |
| Pigs                               | 16.995            | 439           | <b>17.434</b>    |
| Goats                              | 235               | 36            | <b>271</b>       |
| Sheep                              | 3.684             | 97            | <b>3.781</b>     |
| Cattle                             | 4.713             | 719           | <b>5.432</b>     |
| Prosimians                         | 43                | 74            | <b>117</b>       |
| Marmoset and tamarins              | 95                | 31            | <b>126</b>       |
| Cynomolgus monkey                  | 1.583             | 491           | <b>2.074</b>     |
| Rhesus monkey                      | 62                | 35            | <b>97</b>        |
| Vervets Chlorocebus spp.           |                   | 21            | <b>21</b>        |
| Baboons                            | 8                 | 1             | <b>9</b>         |
| Other species of Old World Monkeys |                   | 18            | <b>18</b>        |
| Other Mammals                      | 1.200             | 67            | <b>1.267</b>     |
| Domestic fowl                      | 39.442            | 723           | <b>40.165</b>    |
| Other birds                        | 17.315            | 310           | <b>17.625</b>    |
| Reptiles                           | 417               | 305           | <b>722</b>       |
| Rana                               | 932               |               | <b>932</b>       |
| Xenopus                            | 3.702             | 2.391         | <b>6.093</b>     |
| Other Amphibians                   | 3.182             | 14            | <b>3.196</b>     |
| Zebra fish                         | 193.089           | 6.902         | <b>199.991</b>   |
| Other Fish                         | 110.435           | 211           | <b>110.646</b>   |
| <b>Total uses</b>                  | <b>2.796.773</b>  | <b>57.813</b> | <b>2.854.586</b> |

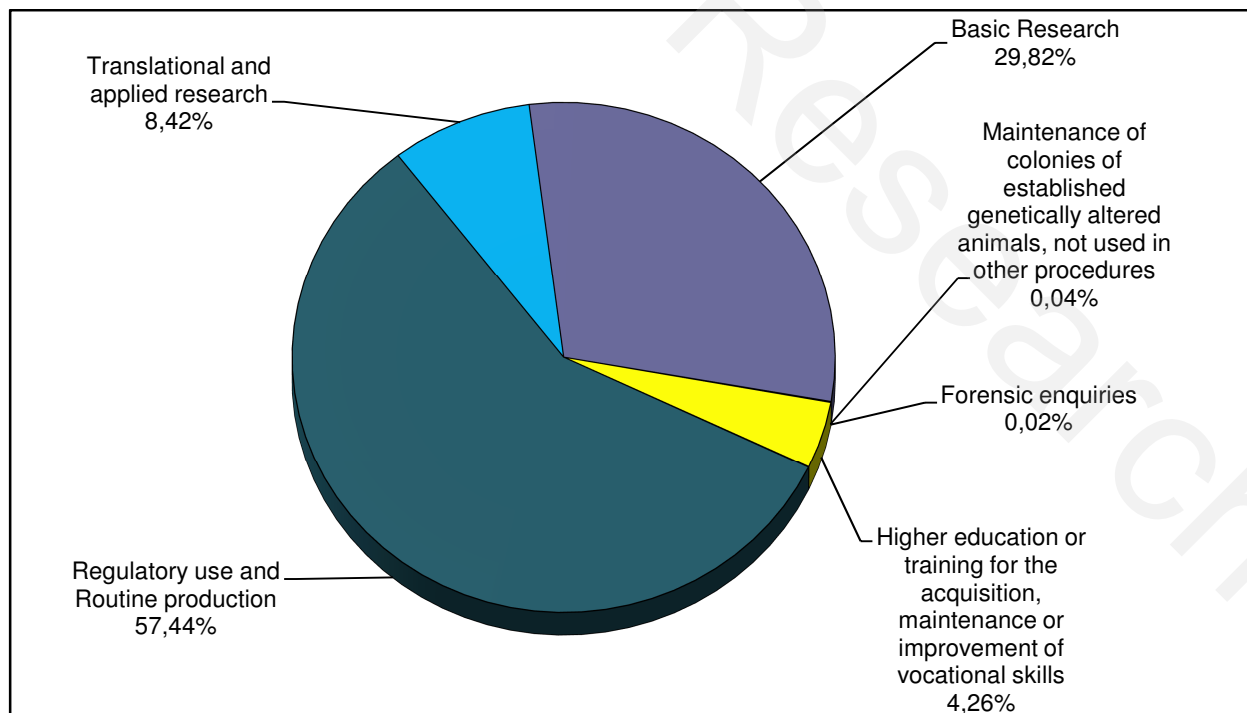
*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (includes re-use)*

Figure 5: Use of species groups and re-use



*Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (includes re-use)*

Figure 6: Primary purpose and re-use



*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*



## 8. Purposes and severity

Table 22: Purpose and severity

|                                                                                                            | Non-recovery   | Mild [up to and including] | Moderate       | Severe         | Total            |
|------------------------------------------------------------------------------------------------------------|----------------|----------------------------|----------------|----------------|------------------|
| Basic Research                                                                                             | 102.755        | 767.872                    | 224.111        | 22.993         | <b>1.117.731</b> |
| Translational and applied research                                                                         | 25.723         | 147.541                    | 125.277        | 8.660          | <b>307.201</b>   |
| Regulatory use and Routine production                                                                      | 144            | 292.181                    | 139.128        | 123.531        | <b>554.984</b>   |
| Protection of the natural environment in the interests of the health or welfare of human beings or animals | 1.513          | 5.982                      | 269            | 337            | <b>8.101</b>     |
| Preservation of species                                                                                    | 2.263          | 37.411                     | 697            | 16             | <b>40.387</b>    |
| Higher education or training for the acquisition, maintenance or improvement of vocational skills          | 14.007         | 28.388                     | 6.533          | 3              | <b>48.931</b>    |
| Forensic enquiries                                                                                         | 4              | 14                         | 10             |                | <b>28</b>        |
| Maintenance of colonies of established genetically altered animals, not used in other procedures           | 401            | 45.089                     | 3.618          | 1.848          | <b>50.956</b>    |
| <b>Total uses</b>                                                                                          | <b>146.810</b> | <b>1.324.478</b>           | <b>499.643</b> | <b>157.388</b> | <b>2.128.319</b> |
| <b>%</b>                                                                                                   | <b>6.90%</b>   | <b>62.23%</b>              | <b>23.48%</b>  | <b>7.39%</b>   | <b>100.00%</b>   |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

Table 23: Basic research purposes and severity

|                                              | Non-recovery   | Mild [up to and including] | Moderate       | Severe        | Total            |
|----------------------------------------------|----------------|----------------------------|----------------|---------------|------------------|
| Oncology                                     | 8.272          | 39.109                     | 34.715         | 2.740         | <b>84.836</b>    |
| Cardiovascular Blood and Lymphatic System    | 9.070          | 66.283                     | 23.513         | 2.941         | <b>101.807</b>   |
| Nervous System                               | 24.254         | 86.583                     | 52.322         | 5.021         | <b>168.180</b>   |
| Respiratory System                           | 1.524          | 16.495                     | 6.043          | 293           | <b>24.355</b>    |
| Gastrointestinal System including Liver      | 5.523          | 17.110                     | 8.380          | 84            | <b>31.097</b>    |
| Musculoskeletal System                       | 1.547          | 12.260                     | 5.150          | 371           | <b>19.328</b>    |
| Immune System                                | 24.642         | 137.264                    | 51.498         | 6.703         | <b>220.107</b>   |
| Urogenital/Reproductive System               | 6.406          | 14.259                     | 4.121          | 1.142         | <b>25.928</b>    |
| Sensory Organs (skin, eyes and ears)         | 2.650          | 22.490                     | 3.129          | 330           | <b>28.599</b>    |
| Endocrine System/Metabolism                  | 3.116          | 101.788                    | 12.044         | 195           | <b>117.143</b>   |
| Multisystemic                                | 4.468          | 122.064                    | 9.731          | 1.600         | <b>137.863</b>   |
| Ethology / Animal Behaviour / Animal Biology | 1.443          | 30.098                     | 3.686          | 1             | <b>35.228</b>    |
| Other basic research                         | 9.840          | 102.069                    | 9.779          | 1.572         | <b>123.260</b>   |
| <b>Total uses</b>                            | <b>102.755</b> | <b>767.872</b>             | <b>224.111</b> | <b>22.993</b> | <b>1.117.731</b> |
| <b>%</b>                                     | <b>9.19%</b>   | <b>68.70%</b>              | <b>20.05%</b>  | <b>2.06%</b>  | <b>100.00%</b>   |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

Table 24: Basic research: species and severity

|                                | Non-recovery   | Mild [up to and including] | Moderate       | Severe        | Total            |
|--------------------------------|----------------|----------------------------|----------------|---------------|------------------|
| Mice                           | 91.628         | 531.340                    | 199.249        | 20.279        | 842.496          |
| Rats                           | 5.699          | 15.531                     | 15.577         | 1.002         | 37.809           |
| Guinea-Pigs                    | 141            | 418                        | 91             |               | 650              |
| Hamsters (Syrian)              |                | 26                         |                |               | 26               |
| Mongolian gerbil               | 165            | 191                        | 472            | 1             | 829              |
| Other Rodents                  | 2              | 2.998                      | 13             | 30            | 3.043            |
| Rabbits                        | 33             | 827                        | 374            | 6             | 1.240            |
| Cats                           |                | 48                         |                |               | 48               |
| Dogs                           |                | 220                        | 22             |               | 242              |
| Ferrets                        | 20             | 19                         |                | 5             | 44               |
| Other carnivores               |                | 88                         |                |               | 88               |
| Horses, donkeys & cross-breeds |                | 891                        | 20             | 1             | 912              |
| Pigs                           | 517            | 2.623                      | 424            | 4             | 3.568            |
| Goats                          |                | 65                         |                |               | 65               |
| Sheep                          | 31             | 112                        | 82             |               | 225              |
| Cattle                         | 4              | 1.953                      | 117            |               | 2.074            |
| Prosimians                     |                | 117                        |                |               | 117              |
| Marmoset and tamarins          | 32             | 41                         | 28             |               | 101              |
| Cynomolgus monkey              | 3              | 4                          | 53             |               | 60               |
| Rhesus monkey                  |                | 3                          | 20             |               | 23               |
| Baboons                        |                |                            |                | 8             | 8                |
| Other Mammals                  | 19             | 865                        | 114            |               | 998              |
| Domestic fowl                  | 211            | 10.362                     | 28             | 940           | 11.541           |
| Other birds                    | 556            | 7.656                      | 1.942          |               | 10.154           |
| Reptiles                       | 33             | 9                          | 104            |               | 146              |
| Xenopus                        | 373            | 4.347                      | 170            | 2             | 4.892            |
| Other Amphibians               |                | 532                        |                |               | 532              |
| Zebra fish                     | 1.519          | 145.344                    | 4.704          | 166           | 151.733          |
| Other Fish                     | 1.769          | 41.242                     | 507            | 549           | 44.067           |
| <b>Total uses:</b>             | <b>102.755</b> | <b>767.872</b>             | <b>224.111</b> | <b>22.993</b> | <b>1.117.731</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

Table 25: Translational and applied research: purposes and severity

|                                                     | Non-recovery  | Mild [up to and including] | Moderate       | Severe       | Total          |
|-----------------------------------------------------|---------------|----------------------------|----------------|--------------|----------------|
| Human Cancer                                        | 1.850         | 40.998                     | 70.966         | 1.416        | <b>115.230</b> |
| Human Infectious Disorders                          | 3.873         | 10.202                     | 6.735          | 1.242        | <b>22.052</b>  |
| Human Cardiovascular Disorders                      | 4.172         | 5.721                      | 3.900          | 804          | <b>14.597</b>  |
| Human Nervous and Mental Disorders                  | 5.654         | 25.614                     | 9.600          | 475          | <b>41.343</b>  |
| Human Respiratory Disorders                         | 2.191         | 9.712                      | 3.673          | 548          | <b>16.124</b>  |
| Human Gastrointestinal Disorders including Liver    | 1.021         | 5.863                      | 3.166          | 309          | <b>10.359</b>  |
| Human Musculoskeletal Disorders                     | 1             | 775                        | 2.674          | 122          | <b>3.572</b>   |
| Human Immune Disorders                              | 2.116         | 5.142                      | 6.942          | 548          | <b>14.748</b>  |
| Human Urogenital/Reproductive Disorders             | 851           | 506                        | 2.259          | 157          | <b>3.773</b>   |
| Human Sensory Organ Disorders (skin, eyes and ears) | 1.087         | 3.038                      | 1.581          | 7            | <b>5.713</b>   |
| Human Endocrine/Metabolism Disorders                | 766           | 12.070                     | 1.719          | 83           | <b>14.638</b>  |
| Other Human Disorders                               | 206           | 573                        | 3.362          | 82           | <b>4.223</b>   |
| Animal Diseases and Disorders                       | 1.171         | 16.241                     | 3.668          | 2.037        | <b>23.117</b>  |
| Animal Welfare                                      | 16            | 6.404                      | 709            | 73           | <b>7.202</b>   |
| Diagnosis of diseases                               | 128           | 1.105                      | 1.424          | 755          | <b>3.412</b>   |
| Plant diseases                                      |               | 17                         |                |              | <b>17</b>      |
| Non-regulatory toxicology and ecotoxicology         | 620           | 3.560                      | 2.899          | 2            | <b>7.081</b>   |
| <b>Total</b>                                        | <b>25.723</b> | <b>147.541</b>             | <b>125.277</b> | <b>8.660</b> | <b>307.201</b> |
| <b>%</b>                                            | <b>8,37%</b>  | <b>48,03%</b>              | <b>40,78%</b>  | <b>2,82%</b> | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

**Table 26: Translational and applied research: species and severity**

|                                                       | Non-recovery  | Mild [up to and including] | Moderate       | Severe       | Total          |
|-------------------------------------------------------|---------------|----------------------------|----------------|--------------|----------------|
| Mice                                                  | 18.606        | 103.692                    | 109.336        | 7.361        | 238.995        |
| Rats                                                  | 5.061         | 18.490                     | 9.592          | 430          | 33.573         |
| Guinea-Pigs                                           | 340           | 419                        | 520            | 201          | 1.480          |
| Hamsters (Syrian)                                     |               | 605                        | 96             |              | 701            |
| Mongolian gerbil                                      |               | 455                        | 1.282          | 21           | 1.758          |
| Other Rodents                                         |               | 188                        |                |              | 188            |
| Rabbits                                               | 128           | 294                        | 583            | 150          | 1.155          |
| Cats                                                  |               | 238                        | 40             |              | 278            |
| Dogs                                                  |               | 1.013                      | 56             | 24           | 1.093          |
| Ferrets                                               |               | 37                         | 49             |              | 86             |
| Other carnivores                                      |               |                            | 3              |              | 3              |
| Horses, donkeys & cross-breeds                        | 14            | 252                        |                |              | 266            |
| Pigs                                                  | 293           | 6.519                      | 1.130          | 276          | 8.218          |
| Goats                                                 |               | 18                         | 52             |              | 70             |
| Sheep                                                 | 60            | 1.971                      | 570            | 18           | 2.619          |
| Cattle                                                |               | 2.028                      | 359            | 65           | 2.452          |
| Marmoset and tamarins                                 |               |                            | 2              |              | 2              |
| Cynomolgus monkey                                     |               | 239                        | 3              |              | 242            |
| Rhesus monkey                                         |               | 23                         | 15             |              | 38             |
| Vervets Chlorocebus spp.                              |               | 18                         |                |              | 18             |
| Other species of Old World Monkeys (Cercopithecoidea) |               | 18                         |                |              | 18             |
| Other Mammals                                         |               | 19                         |                |              | 19             |
| Domestic fowl                                         | 322           | 3.787                      | 1.193          | 42           | 5.344          |
| Other birds                                           | 50            | 4.516                      | 3              | 72           | 4.641          |
| Xenopus                                               |               | 25                         |                |              | 25             |
| Zebra fish                                            | 64            | 1.173                      |                |              | 1.237          |
| Other Fish                                            | 785           | 1.504                      | 393            |              | 2.682          |
| <b>Total uses:</b>                                    | <b>25.723</b> | <b>147.541</b>             | <b>125.277</b> | <b>8.660</b> | <b>307.201</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 27: Regulatory use/routine production purposes and severity**

|                                                          | Non-recovery | Mild [up to and including] | Moderate       | Severe         | Total          |
|----------------------------------------------------------|--------------|----------------------------|----------------|----------------|----------------|
| Routine production                                       |              | 52.391                     | 2.077          | 40.334         | 94.802         |
| Quality control (incl batch safety and potency testing)  |              | 72.127                     | 52.038         | 62.332         | 186.497        |
| Other efficacy and tolerance testing                     |              | 21.629                     | 21.521         | 2.306          | 45.456         |
| Toxicity and other safety testing including pharmacology |              | 146.104                    | 63.492         | 18.633         | 228.229        |
| <b>Total</b>                                             | <b>0</b>     | <b>292.251</b>             | <b>139.128</b> | <b>123.605</b> | <b>554.984</b> |
| <b>%</b>                                                 | <b>0.00%</b> | <b>52.66%</b>              | <b>25.07%</b>  | <b>22.27%</b>  | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

**Table 28: Regulatory use/routine production: species and severity**

|                                | Non-recovery | Mild [up to and including] | Moderate       | Severe         | Total          |
|--------------------------------|--------------|----------------------------|----------------|----------------|----------------|
| Mice                           |              | 112.134                    | 45.158         | 64.905         | 222.197        |
| Rats                           |              | 80.054                     | 79.263         | 2.8889         | 162.206        |
| Guinea-Pigs                    |              | 7.605                      | 573            | 3.648          | 11.826         |
| Hamsters (Syrian)              |              | 364                        |                |                | 364            |
| Mongolian gerbil               |              | 2.088                      | 8              | 1              | 2.097          |
| Other Rodents                  |              | 3.184                      | 50             | 100            | 3.334          |
| Rabbits                        |              | 56.362                     | 1.492          | 37.831         | 95.685         |
| Cats                           |              | 327                        | 29             | 23             | 379            |
| Dogs                           |              | 2.134                      | 328            | 16             | 2.478          |
| Other carnivores               |              | 182                        | 201            |                | 383            |
| Horses. donkeys & cross-breeds |              | 40                         |                |                | 40             |
| Pigs                           |              | 2.117                      | 993            | 147            | 3.257          |
| Goats                          |              | 53                         |                |                | 53             |
| Sheep                          |              | 662                        | 52             |                | 714            |
| Cattle                         |              | 515                        | 35             |                | 550            |
| Marmoset and tamarins          |              |                            | 9              |                | 9              |
| Cynomolgus monkey              |              | 715                        | 1.041          |                | 1.756          |
| Rhesus monkey                  |              | 24                         |                |                | 24             |
| Other Mammals                  |              | 2                          | 9              | 16             | 27             |
| Domestic fowl                  |              | 10.446                     | 390            | 15             | 10.851         |
| Other birds                    |              | 286                        | 221            | 13             | 520            |
| Reptiles                       |              | 300                        |                |                | 300            |
| Rana                           |              |                            |                | 80             | 80             |
| Xenopus                        |              |                            |                | 205            | 205            |
| Other Amphibians               |              | 72                         |                |                | 72             |
| Zebra fish                     |              | 7.956                      | 6.521          | 8.948          | 23.425         |
| Other Fish                     |              | 4.629                      | 2.755          | 4.768          | 12.152         |
| <b>Total uses:</b>             | <b>0</b>     | <b>292.181</b>             | <b>139.128</b> | <b>123.531</b> | <b>554.984</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

**Table 29: Quality control purposes and severity**

|                        | Non-recovery | Mild [up to and including] | Moderate      | Severe        | Total          |
|------------------------|--------------|----------------------------|---------------|---------------|----------------|
| Batch safety testing   |              | 26.788                     | 363           | 476           | <b>27.627</b>  |
| Pyrogenicity testing   |              |                            | 347           |               | <b>347</b>     |
| Batch potency testing  |              | 42.723                     | 51.328        | 61853         | <b>155.904</b> |
| Other quality controls |              | 2.616                      |               | 3             | <b>2.619</b>   |
| <b>Total</b>           | <b>0</b>     | <b>72.127</b>              | <b>52.038</b> | <b>62.332</b> | <b>186.497</b> |
| <b>%</b>               | <b>0.00%</b> | <b>38.67%</b>              | <b>27.90%</b> | <b>33.42%</b> | <b>100.00%</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 30: Routine production purposes and severity**

|                       | Non-recovery | Mild [up to and including] | Moderate     | Severe        | Total          |
|-----------------------|--------------|----------------------------|--------------|---------------|----------------|
| Blood based products  |              | 50.433                     | 28           | 37.778        | <b>88.239</b>  |
| Monoclonal antibodies |              | 26                         |              | 2.466         | <b>2.492</b>   |
| Other product types   |              | 1.932                      | 2.049        | 90            | <b>4.071</b>   |
| <b>Total</b>          | <b>0</b>     | <b>52.391</b>              | <b>2.077</b> | <b>40.334</b> | <b>94.802</b>  |
| <b>%</b>              | <b>0.00%</b> | <b>55.26%</b>              | <b>2.19%</b> | <b>42.55%</b> | <b>100.00%</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 31: Toxicity and other safer testing by test type purposes and severity**

|                                              | Non-recovery | Mild [up to and including] | Moderate      | Severe        | Total          |
|----------------------------------------------|--------------|----------------------------|---------------|---------------|----------------|
| Acute and sub-acute                          |              | 2.699                      | 1.984         | 2.572         | <b>7.255</b>   |
| Skin irritation/corrosion                    |              | 715                        | 43            |               | <b>758</b>     |
| Skin sensitisation                           |              | 7.225                      | 1.369         | 10            | <b>8.604</b>   |
| Eye irritation/corrosion                     |              | 66                         | 134           |               | <b>200</b>     |
| Repeated dose toxicity                       |              | 11.517                     | 6.965         | 490           | <b>18.972</b>  |
| Carcinogenicity                              |              | 658                        | 95            | 46            | <b>799</b>     |
| Genotoxicity                                 |              | 2.542                      | 118           | 83            | <b>2.743</b>   |
| Reproductive toxicity                        |              | 12.320                     | 1.669         | 11            | <b>14.000</b>  |
| Developmental toxicity                       |              | 11.086                     | 1.180         | 5.650         | <b>17.916</b>  |
| Neurotoxicity                                |              | 163                        | 3             |               | <b>166</b>     |
| Kinetics                                     |              | 24.399                     | 5.926         | 332           | <b>30.657</b>  |
| Pharmaco-dynamics (incl safety pharmacology) |              | 53.670                     | 35.333        | 3.113         | <b>92.116</b>  |
| Ecotoxicity                                  |              | 12.823                     | 8.278         | 6.323         | <b>27.424</b>  |
| Safety testing in food and feed area         |              | 15                         | 71            |               | <b>86</b>      |
| Target animal safety                         |              | 3.873                      | 32            |               | <b>3.905</b>   |
| Other toxicity/safety testing                |              | 2.333                      | 292           | 3             | <b>2.628</b>   |
| <b>Total uses</b>                            | <b>0</b>     | <b>146.104</b>             | <b>63.492</b> | <b>18.633</b> | <b>228.229</b> |
| <b>%</b>                                     | <b>0.00%</b> | <b>64.02%</b>              | <b>27.82%</b> | <b>8.16%</b>  | <b>100.00%</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 32: Repeated dose toxicity testing methods and severity**

|               | Non-recovery | Mild<br>[up to and including] | Moderate      | Severe       | Total          |
|---------------|--------------|-------------------------------|---------------|--------------|----------------|
| up to 28 days |              | 8.179                         | 4.044         | 477          | <b>12.700</b>  |
| 29 - 90 days  |              | 2.512                         | 1.964         | 15           | <b>4.491</b>   |
| > 90 days     |              | 826                           | 952           | 3            | <b>1.781</b>   |
| <b>Total</b>  | <b>0</b>     | <b>11.517</b>                 | <b>6.960</b>  | <b>495</b>   | <b>18.972</b>  |
| <b>%</b>      | <b>0.00%</b> | <b>60.71%</b>                 | <b>36.69%</b> | <b>2.61%</b> | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

**Table 33: Acute and subacute toxicity testing methods and severity**

|                      | Non-recovery | Mild<br>[up to and including] | Moderate      | Severe        | Total          |
|----------------------|--------------|-------------------------------|---------------|---------------|----------------|
| LD50, LC50           |              | 565                           | 1.404         | 2.309         | <b>4.278</b>   |
| Other lethal methods |              | 59                            |               | 242           | <b>301</b>     |
| Non lethal methods   |              | 2.075                         | 580           | 21            | <b>2.676</b>   |
| <b>Total</b>         | <b>0</b>     | <b>2.699</b>                  | <b>1.984</b>  | <b>2.572</b>  | <b>7.255</b>   |
| <b>%</b>             | <b>0.00%</b> | <b>37.20%</b>                 | <b>27.35%</b> | <b>35.45%</b> | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

**Table 34: Ecotoxicity testing methods and severity**

|                          | Non-recovery | Mild<br>[up to and including] | Moderate      | Severe        | Total          |
|--------------------------|--------------|-------------------------------|---------------|---------------|----------------|
| Acute toxicity           |              | 2.094                         | 577           | 3.518         | <b>6.189</b>   |
| Chronic toxicity         |              | 3.016                         | 5.039         | 2.752         | <b>10.807</b>  |
| Reproductive ecotoxicity |              |                               | 1.465         |               | <b>1.465</b>   |
| Endocrine activity       |              | 5.887                         |               | 53            | <b>5.940</b>   |
| Bioaccumulation          |              | 1.684                         | 1.147         |               | <b>2.831</b>   |
| Other ecotoxicity        |              | 142                           | 50            |               | <b>192</b>     |
| <b>Total</b>             | <b>0</b>     | <b>12.823</b>                 | <b>8.278</b>  | <b>6.323</b>  | <b>27.424</b>  |
| <b>%</b>                 | <b>0.00%</b> | <b>46.76%</b>                 | <b>30.19%</b> | <b>23.06%</b> | <b>100.00%</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes and animals used under § 4 (3) of the Animal Protection Act, includes re-use)

## 9. Purposes and testing by type of legislation

Table 35: Regulatory use and routine production purposes: type of legislation

|                                                                                                  | Quality control<br>(incl batch safety<br>and potency<br>testing) | Other efficacy<br>and tolerance<br>testing | Toxicity and other<br>safety testing<br>including pharmacology | Routine<br>production | Total          |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|-----------------------|----------------|
| Legislation on medicinal products for human use                                                  | 167.797                                                          | 38.719                                     | 142.357                                                        | 39.586                | 388.459        |
| Legislation on medicinal products for veterinary use and their residues                          | 18.454                                                           | 2.375                                      | 6.255                                                          | 2.701                 | 29.785         |
| Medical devices legislation                                                                      |                                                                  | 163                                        | 6.326                                                          | 49.737                | 56.226         |
| Industrial chemicals legislation                                                                 |                                                                  |                                            | 36.967                                                         | 602                   | 37.569         |
| Plant protection product legislation                                                             |                                                                  |                                            | 33.574                                                         | 45                    | 33.619         |
| Biocides legislation                                                                             |                                                                  | 808                                        | 1.096                                                          | 173                   | 2.077          |
| Food legislation including food contact material                                                 |                                                                  |                                            |                                                                | 3                     | 3              |
| Feed legislation including legislation for the safety of target animals, workers and environment |                                                                  | 2.982                                      | 86                                                             |                       | 3.068          |
| Other legislation                                                                                | 246                                                              | 409                                        | 1.568                                                          | 1.955                 | 4.178          |
| <b>Total</b>                                                                                     | <b>186.497</b>                                                   | <b>45.456</b>                              | <b>228.229</b>                                                 | <b>94.802</b>         | <b>554.984</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)



**Table 36: Quality control purposes: type of legislation**

|                                                                         | Batch potency testing | Batch safety testing | Other quality controls | Pyrogenicity testing | Total          |
|-------------------------------------------------------------------------|-----------------------|----------------------|------------------------|----------------------|----------------|
| Legislation on medicinal products for human use                         | 147.200               | 17.681               | 2.569                  | 347                  | 167.797        |
| Legislation on medicinal products for veterinary use and their residues | 8.637                 | 9.817                |                        |                      | 18.454         |
| Medical devices legislation                                             | 67                    | 129                  | 50                     |                      | 246            |
| <b>Total</b>                                                            | <b>155.904</b>        | <b>27.627</b>        | <b>2.619</b>           | <b>347</b>           | <b>186.497</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 37: Routine production purposes: type of legislation**

|                                                                         | Blood based products | Monoclonal antibodies | Other product types | Total         |
|-------------------------------------------------------------------------|----------------------|-----------------------|---------------------|---------------|
| Legislation on medicinal products for human use                         | 38.523               | 683                   | 380                 | 39.586        |
| Legislation on medicinal products for veterinary use and their residues | 1.901                | 800                   |                     | 2.701         |
| Medical devices legislation                                             | 47.809               | 70                    | 1.858               | 49.737        |
| Industrial product legislation                                          |                      | 287                   | 315                 | 602           |
| Plant protection product legislation                                    |                      |                       | 45                  | 45            |
| Biocides legislation                                                    |                      |                       | 173                 | 173           |
| Food legislation including food contact material                        |                      |                       | 3                   | 3             |
| Other legislation                                                       | 6                    | 652                   | 1.297               | 1.955         |
| <b>Total of uses:</b>                                                   | <b>88.239</b>        | <b>2.492</b>          | <b>4.071</b>        | <b>94.802</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 38: Toxicity and other safety testing by test type purposes: type of legislation**

|                                              | Legislation on medicinal products for human use | Legislation on medicinal products for veterinary use and their residues | Medical devices legislation | Industrial chemicals legislation | Plant protection product legislation | Biocides legislation | Feed legislation including legislation for the safety of target animals, workers and environment | Other legislation | Total          |
|----------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------|-----------------------------|----------------------------------|--------------------------------------|----------------------|--------------------------------------------------------------------------------------------------|-------------------|----------------|
| Acute and sub-acute                          | 2.184                                           | 57                                                                      | 516                         | 1.192                            | 3.100                                | 163                  |                                                                                                  | 43                | 7.255          |
| Skin irritation/corrosion                    | 58                                              |                                                                         | 609                         | 39                               | 42                                   |                      |                                                                                                  | 10                | 758            |
| Skin sensitisation                           | 886                                             | 48                                                                      | 3.437                       | 3.260                            | 951                                  | 22                   |                                                                                                  |                   | 8.604          |
| Eye irritation/corrosion                     | 6                                               |                                                                         | 24                          | 131                              | 39                                   |                      |                                                                                                  |                   | 200            |
| Repeated dose toxicity                       | 12.993                                          | 538                                                                     | 80                          | 3.575                            | 1.786                                |                      |                                                                                                  |                   | 18.972         |
| Carcinogenicity                              | 283                                             |                                                                         |                             | 80                               | 436                                  |                      |                                                                                                  |                   | 799            |
| Genotoxicity                                 | 817                                             | 84                                                                      |                             | 366                              | 795                                  | 681                  |                                                                                                  |                   | 2.743          |
| Reproductive toxicity                        | 1.711                                           |                                                                         |                             | 11.354                           | 935                                  |                      |                                                                                                  |                   | 14.000         |
| Developmental toxicity                       | 830                                             | 600                                                                     | 1.040                       | 9.258                            | 6.188                                |                      |                                                                                                  |                   | 17.916         |
| Neurotoxicity                                |                                                 |                                                                         |                             | 83                               | 83                                   |                      |                                                                                                  |                   | 166            |
| Kinetics                                     | 28.894                                          | 1.035                                                                   | 58                          | 28                               | 642                                  |                      |                                                                                                  |                   | 30.657         |
| Pharmaco-dynamics (incl safety pharmacology) | 89.710                                          | 2.376                                                                   |                             |                                  | 10                                   |                      |                                                                                                  | 20                | 92.116         |
| Ecotoxicity                                  | 2.236                                           | 708                                                                     | 290                         | 7.601                            | 15.447                               | 230                  |                                                                                                  | 912               | 27.424         |
| Safety testing in food and feed area         |                                                 |                                                                         |                             |                                  |                                      |                      | 86                                                                                               |                   | 86             |
| Target animal safety                         |                                                 | 785                                                                     |                             |                                  | 3.120                                |                      |                                                                                                  |                   | 3.905          |
| Other toxicity/safety testing                | 1.749                                           | 24                                                                      | 272                         |                                  |                                      |                      |                                                                                                  | 583               | 2.628          |
| <b>Total of uses:</b>                        | <b>142.357</b>                                  | <b>6.255</b>                                                            | <b>6.326</b>                | <b>36.967</b>                    | <b>33.574</b>                        | <b>1.096</b>         | <b>86</b>                                                                                        | <b>1.568</b>      | <b>228.229</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 39: Repeated dose toxicity purposes: type of legislation**

|                                                                         | up to 28 days | 29 - 90 days | > 90 days    | Total         |
|-------------------------------------------------------------------------|---------------|--------------|--------------|---------------|
| Legislation on medicinal products for human use                         | 9.105         | 2.557        | 1331         | <b>12.993</b> |
| Legislation on medicinal products for veterinary use and their residues | 256           | 160          | 122          | <b>538</b>    |
| Medical devices legislation                                             |               | 80           |              | <b>80</b>     |
| Industrial chemicals legislation                                        | 1.849         | 1.438        | 288          | <b>3.575</b>  |
| Plant protection product legislation                                    | 1.490         | 256          | 40           | <b>1.786</b>  |
| <b>Total</b>                                                            | <b>12.700</b> | <b>4.491</b> | <b>1.781</b> | <b>18.972</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 40: Acute and subacute toxicity testing methods: type of legislation**

|                                                                         | LD50. LC50   | Other lethal methods | Non lethal methods | Total        |
|-------------------------------------------------------------------------|--------------|----------------------|--------------------|--------------|
| Legislation on medicinal products for human use                         | 30           | 59                   | 2.095              | <b>2.184</b> |
| Legislation on medicinal products for veterinary use and their residues | 57           |                      |                    | <b>57</b>    |
| Medical devices legislation                                             | 504          |                      | 12                 | <b>516</b>   |
| Industrial chemicals legislation                                        | 991          |                      | 201                | <b>1.192</b> |
| Plant protection product legislation                                    | 2.533        | 242                  | 325                | <b>3.100</b> |
| Biocides legislation                                                    | 163          |                      |                    | <b>163</b>   |
| Other legislation                                                       |              |                      | 43                 | <b>43</b>    |
| <b>Total of uses:</b>                                                   | <b>4.278</b> | <b>301</b>           | <b>2.676</b>       | <b>7.255</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 41: Ecotoxicity purposes: type of legislation**

|                                                                         | Acute toxicity | Chronic toxicity | Reproductive ecotoxicity | Endocrine activity | Bioaccumulation | Other ecotoxicity | Total         |
|-------------------------------------------------------------------------|----------------|------------------|--------------------------|--------------------|-----------------|-------------------|---------------|
| Legislation on medicinal products for human use                         |                | 2.009            |                          |                    | 227             |                   | <b>2.236</b>  |
| Legislation on medicinal products for veterinary use and their residues | 100            |                  |                          |                    | 608             |                   | <b>708</b>    |
| Medical devices legislation                                             | 12             | 108              |                          |                    | 170             |                   | <b>290</b>    |
| Industrial chemicals legislation                                        | 2.034          | 3.311            | 1.465                    |                    | 791             |                   | <b>7.601</b>  |
| Plant protection product legislation                                    | 3.081          | 5.379            |                          | 5.940              | 867             | 180               | <b>15.447</b> |
| Biocides legislation                                                    | 62             |                  |                          |                    | 168             |                   | <b>230</b>    |
| Other legislation                                                       | 900            |                  |                          |                    |                 | 12                | <b>912</b>    |
| <b>Total</b>                                                            | <b>6.189</b>   | <b>10.807</b>    | <b>1.465</b>             | <b>5.940</b>       | <b>2.831</b>    | <b>192</b>        | <b>27.424</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

## 10. Purposes and origin of legislative requirement

Table 42: Regulatory use and routine production: origin of legislative requirement

|                                                                        | Quality control<br>(incl batch safety<br>and potency<br>testing) | Other efficacy<br>and tolerance<br>testing | Toxicity and other<br>safety testing<br>including<br>pharmacology | Routine<br>production | Total          |
|------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------|-----------------------|----------------|
| Legislation<br>satisfying EU<br>requirements                           | 186.333                                                          | 34.645                                     | 225.329                                                           | 55.678                | 501.985        |
| Legislation<br>satisfying national<br>requirements only<br>[within EU] | 20                                                               | 10.811                                     | 1.363                                                             | 39.124                | 51.318         |
| Legislation<br>satisfying Non-EU<br>requirements only                  | 144                                                              |                                            | 1.537                                                             |                       | 1.681          |
| <b>Total</b>                                                           | <b>186.497</b>                                                   | <b>45.456</b>                              | <b>228.229</b>                                                    | <b>94.802</b>         | <b>554.984</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

Table 43: Toxicity and other safety testing: origin of legislative requirement

|                                                 | Legislation satisfying<br>EU requirements | Legislation satisfying<br>national requirements<br>only [within EU] | Legislation satisfying<br>Non-EU requirements<br>only | Total          |
|-------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------|----------------|
| Acute and sub-acute                             | 7.158                                     | 43                                                                  | 54                                                    | 7.255          |
| Skin irritation/corrosion                       | 758                                       |                                                                     |                                                       | 758            |
| Skin sensitisation                              | 8.133                                     |                                                                     | 471                                                   | 8.604          |
| Eye irritation/corrosion                        | 105                                       |                                                                     | 95                                                    | 200            |
| Repeated dose toxicity                          | 18.610                                    | 40                                                                  | 322                                                   | 18.972         |
| Carcinogenicity                                 | 799                                       |                                                                     |                                                       | 799            |
| Genotoxicity                                    | 2.743                                     |                                                                     |                                                       | 2.743          |
| Reproductive toxicity                           | 14.000                                    |                                                                     |                                                       | 14.000         |
| Developmental toxicity                          | 17.916                                    |                                                                     |                                                       | 17.916         |
| Neurotoxicity                                   | 166                                       |                                                                     |                                                       | 166            |
| Kinetics                                        | 30.575                                    | 60                                                                  | 22                                                    | 30.657         |
| Pharmaco-dynamics (incl<br>safety pharmacology) | 91.480                                    | 120                                                                 | 516                                                   | 92.116         |
| Ecotoxicity                                     | 26.320                                    | 1.094                                                               | 10                                                    | 27.424         |
| Safety testing in food<br>and feed area         | 86                                        |                                                                     |                                                       | 86             |
| Target animal safety                            | 3.858                                     |                                                                     | 47                                                    | 3.905          |
| Other toxicity/safety<br>testing                | 2.622                                     | 6                                                                   |                                                       | 2.628          |
| <b>Total</b>                                    | <b>225.329</b>                            | <b>1.363</b>                                                        | <b>1.537</b>                                          | <b>228.229</b> |

Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)

**Table 44: Repeated dose toxicity: origin of legislative requirement**

|                                                               | up to 28 days | 29 - 90 days | > 90 days    | Total         |
|---------------------------------------------------------------|---------------|--------------|--------------|---------------|
| Legislation satisfying EU requirements                        | 12.578        | 4.251        | 1.781        | <b>18.610</b> |
| Legislation satisfying national requirements only [within EU] | 40            |              |              | <b>40</b>     |
| Legislation satisfying Non-EU requirements only               | 82            | 240          |              | <b>322</b>    |
| <b>Total</b>                                                  | <b>12.700</b> | <b>4.491</b> | <b>1.781</b> | <b>18.972</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 45: Acute and subacute toxicity testing: origin of legislative requirement**

|                                                               | LD50. LC50   | Other lethal methods | Non lethal methods | Total        |
|---------------------------------------------------------------|--------------|----------------------|--------------------|--------------|
| Legislation satisfying EU requirements                        | 4.278        | 301                  | 2.579              | <b>7.158</b> |
| Legislation satisfying national requirements only [within EU] |              |                      | 43                 | <b>43</b>    |
| Legislation satisfying Non-EU requirements only               |              |                      | 54                 | <b>54</b>    |
| <b>Total</b>                                                  | <b>4.278</b> | <b>301</b>           | <b>2.676</b>       | <b>7.255</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

**Table 46: Ecotoxicity testing: origin of legislative requirement**

|                                                               | Acute toxicity | Chronic toxicity | Reproductive ecotoxicity | Endocrine activity | Bioaccumulation | Other ecotoxicity | Total         |
|---------------------------------------------------------------|----------------|------------------|--------------------------|--------------------|-----------------|-------------------|---------------|
| Legislation satisfying EU requirements                        | 5.097          | 10.807           | 1.465                    | 5.940              | 2.831           | 180               | <b>26.320</b> |
| Legislation satisfying national requirements only [within EU] | 1.082          |                  |                          |                    |                 | 12                | <b>1.094</b>  |
| Legislation satisfying Non-EU requirements only               | 10             |                  |                          |                    |                 |                   | <b>10</b>     |
| <b>Total</b>                                                  | <b>6.189</b>   | <b>10.807</b>    | <b>1.465</b>             | <b>5.940</b>       | <b>2.831</b>    | <b>192</b>        | <b>27.424</b> |

*Animals used under § 7 (2) of the Animal Protection Act (excludes animals used under § 4 (3) of the Animal Protection Act, includes re-use)*

# 11. Animals used under § 7 (2) and § 4 (3) of the Animal Protection Act

Table 47: Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act by species

|                                    | Animals used under § 7 (2)<br>Animal Protection Act | Animals used under § 4 (3)<br>Animal Protection Act | Total            |
|------------------------------------|-----------------------------------------------------|-----------------------------------------------------|------------------|
| Mice                               | 1.400.971                                           | 591.778                                             | 1.992.749        |
| Rats                               | 244.339                                             | 73.018                                              | 317.357          |
| Guinea-Pigs                        | 14.184                                              | 576                                                 | 14.760           |
| Hamsters (Syrian)                  | 1.101                                               | 72                                                  | 1.173            |
| Hamsters (Chinese)                 | 2                                                   | 6                                                   | 8                |
| Mongolian gerbil                   | 4.769                                               | 1.010                                               | 5.779            |
| Other Rodents                      | 6.639                                               | 350                                                 | 6.989            |
| Rabbits                            | 98.331                                              | 753                                                 | 99.084           |
| Cats                               | 766                                                 |                                                     | 766              |
| Dogs                               | 3.964                                               | 13                                                  | 3.977            |
| Ferrets                            | 130                                                 | 6                                                   | 136              |
| Other carnivores                   | 474                                                 |                                                     | 474              |
| Horses, donkeys & cross-breeds     | 1.270                                               | 47                                                  | 1.317            |
| Pigs                               | 16.727                                              | 707                                                 | 17.434           |
| Goats                              | 223                                                 | 48                                                  | 271              |
| Sheep                              | 3.750                                               | 31                                                  | 3.781            |
| Cattle                             | 5.432                                               |                                                     | 5.432            |
| Prosimians                         | 117                                                 |                                                     | 117              |
| Marmoset and tamarins              | 113                                                 | 13                                                  | 126              |
| Cynomolgus monkey                  | 2.058                                               | 16                                                  | 2.074            |
| Rhesus monkey                      | 86                                                  | 11                                                  | 97               |
| Vervets Chlorocebus spp.           | 18                                                  | 3                                                   | 21               |
| Baboons                            | 8                                                   | 1                                                   | 9                |
| Other species of Old World Monkeys | 18                                                  |                                                     | 18               |
| Other Mammals                      | 1.143                                               | 124                                                 | 1.267            |
| Domestic fowl                      | 29.853                                              | 10.312                                              | 40.165           |
| Other birds                        | 16.554                                              | 1.071                                               | 17.625           |
| Reptiles                           | 454                                                 | 268                                                 | 722              |
| Rana                               | 930                                                 | 2                                                   | 932              |
| Xenopus                            | 5.237                                               | 856                                                 | 6.093            |
| Other Amphibians                   | 2.675                                               | 521                                                 | 3.196            |
| Zebra fish                         | 178.224                                             | 21.767                                              | 199.991          |
| Other Fish                         | 87.759                                              | 22.887                                              | 110.646          |
| <b>Total</b>                       | <b>2.128.319</b>                                    | <b>726.267</b>                                      | <b>2.854.586</b> |

Animals used under § 7 (2) or § 4 (3) of the Animal Protection Act (includes re-use)