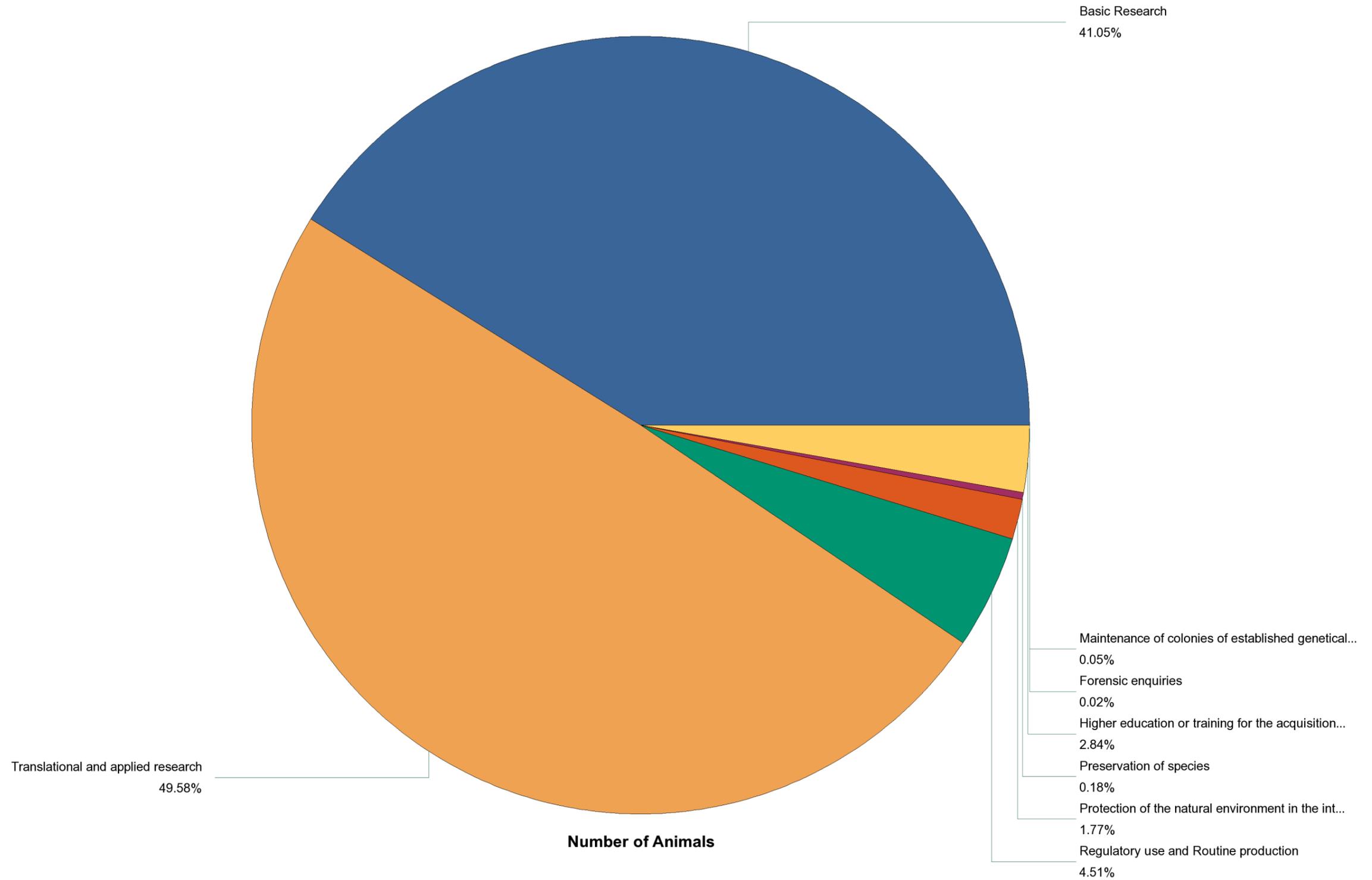


DP.C.1. Use of species in procedures by purposes

	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	Non-EU Purpose	Total
Zebra fish	269		1,170					96		1,535
Other Fish	5,455	3,558	180		368	92				9,653
Cephalopods										
Total	83,165	100,459	9,141	3,585	368	5,745	46	100		202,609



DP.C.1. Use of species in procedures by purposes

Basic research purposes

	Oncology	Cardiovascular 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	7,141	2,362	10,629	2,359	1,763	2,528	17,841	677	399	9,560	713	632	3,551	60,155
Rats	142	2,072	6,880	129	898	102	79	137		1,768	237	6	94	12,544
Guinea-Pigs	62	14									124			200
Hamsters (Syrian)														
Hamsters (Chinese)														
Mongolian gerbil														
Other Rodents														
Rabbits							25					8		33
Cats										3				3
Dogs		17												17
Ferrets							144							144
Other carnivores									63	491		203		757
Horses, donkeys & cross-breeds		10			11	56	58	8						143
Pigs		95	104	21	686	48	12	45	10	107	6	1,149	5	2,288
Goats														
Sheep					20	8								28
Cattle					32					20		45		97
Prosimians														
Marmoset and tamarins														
Cynomolgus monkey														
Rhesus monkey														
Vervets Chlorocebus spp.														
Baboons														
Squirrel monkey														
Other species of New World Monkeys (Ceboidea)														
Other species of Old World Monkeys (Cercopithecoidea)														
Other species of non-human primates														
Apes														
Other Mammals			5						1		3	20		29
Domestic fowl								628						628
Other birds						10						20		30
Reptiles			178								46			224
Rana									5					5
Xenopus			80						10					90
Other Amphibians									6			20		26
Zebra fish		12						137		120				269

DP.C.1. Use of species in procedures by purposes

DP.C.1. Use of species in procedures by 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
Zebra fish																		
Other Fish													3,270				288	3,558
Cephalopods																		
Total	6,785	4,893	10,276	35,796	80	398	388	11,618	247	489	20,991		6,483	992	497		526	100,459
%	6.75%	4.87%	10.23%	35.63%	0.08%	0.40%	0.39%	11.56%	0.25%	0.49%	20.90%		6.45%	0.99%	0.49%		0.52%	

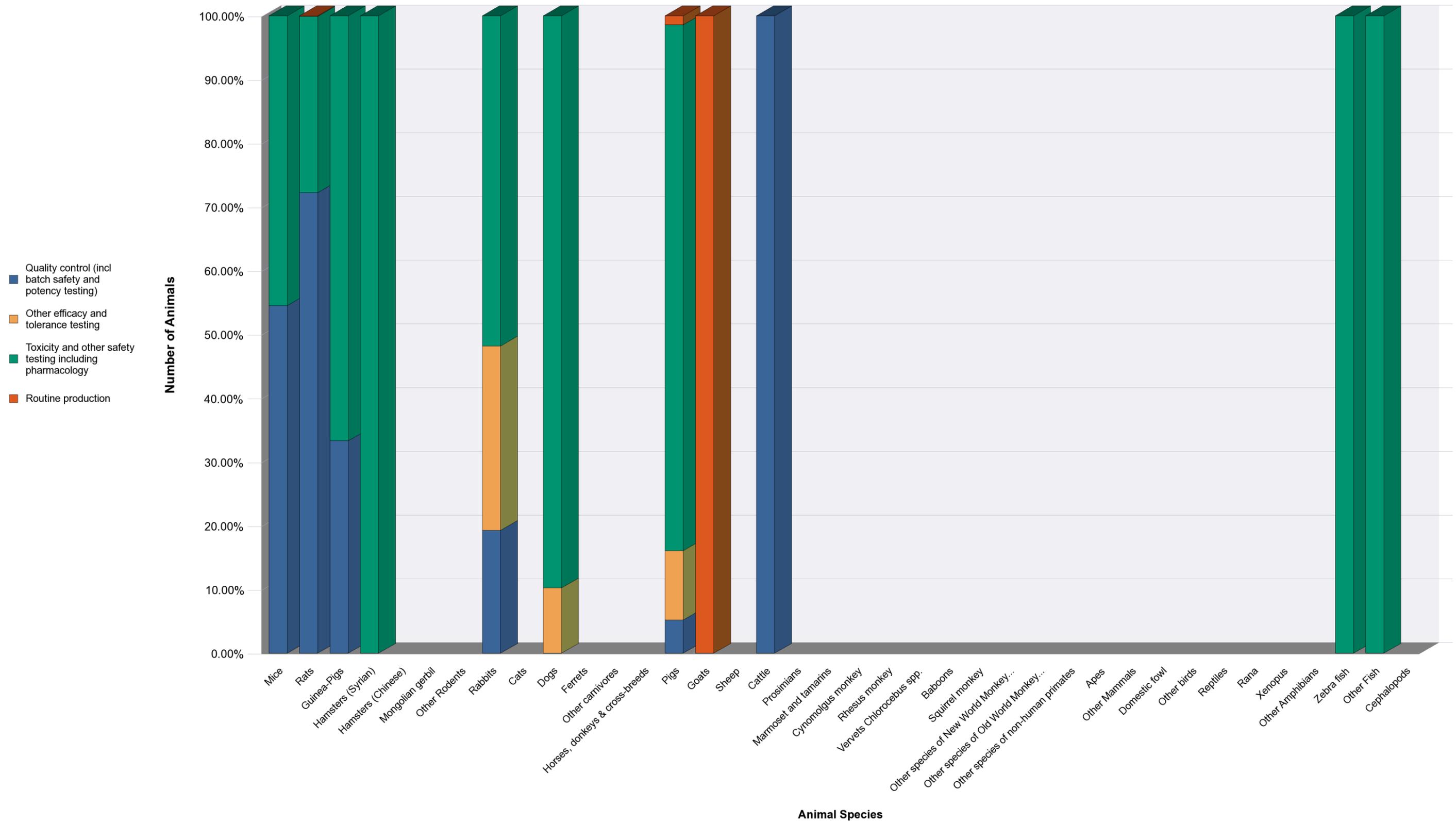
DP.C.1. Use of species in procedures by purposes

Regulatory use and routine production purposes

	Quality control (incl batch safety and potency testing)	Other efficacy and tolerance testing	Toxicity and other safety testing including pharmacology	Routine production	Total
Mice	1,614		1,344		2,958
Rats	2,897		1,108	3	4,008
Guinea-Pigs	30		60		90
Hamsters (Syrian)			8		8
Hamsters (Chinese)					
Mongolian gerbil					
Other Rodents					
Rabbits	16	24	43		83
Cats					
Dogs		21	184		205
Ferrets					
Other carnivores					
Horses, donkeys & cross-breeds					
Pigs	22	46	349	6	423
Goats				11	11
Sheep					
Cattle	5				5
Prosimians					
Marmoset and tamarins					
Cynomolgus monkey					
Rhesus monkey					
Vervets Chlorocebus spp.					
Baboons					
Squirrel monkey					
Other species of New World Monkeys (Ceboidea)					
Other species of Old World Monkeys (Cercopithecoidea)					
Other species of non-human primates					
Apes					
Other Mammals					
Domestic fowl					
Other birds					
Reptiles					
Rana					
Xenopus					
Other Amphibians					
Zebra fish			1,170		1,170
Other Fish			180		180
Cephalopods					

DP.C.1. Use of species in procedures by purposes

	Quality control (incl batch safety and potency testing)	Other efficacy and tolerance testing	Toxicity and other safety testing including pharmacology	Routine production	Total
Total	4,584	91	4,446	20	9,141
%	50.15%	1.00%	48.64%	0.22%	



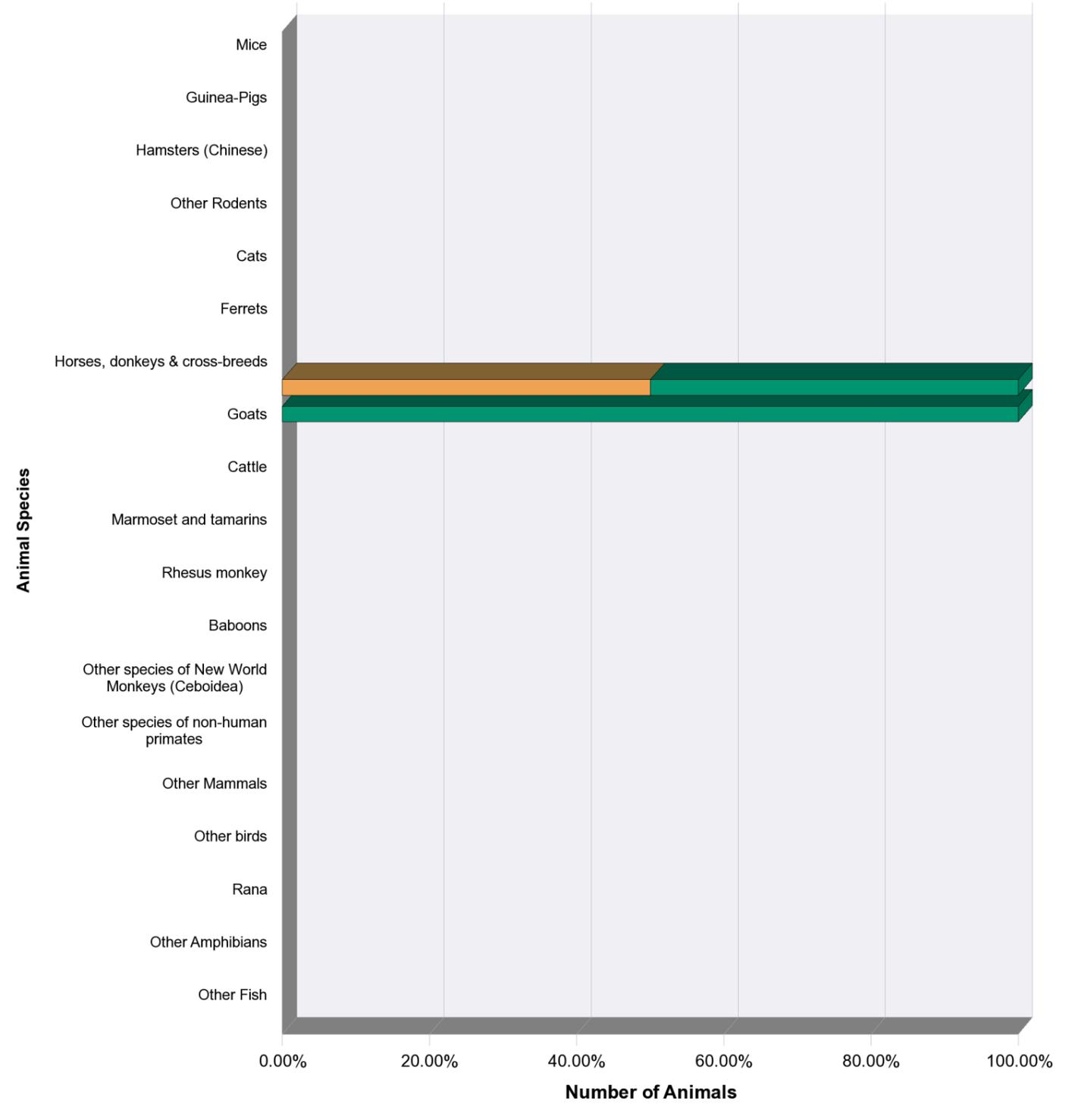
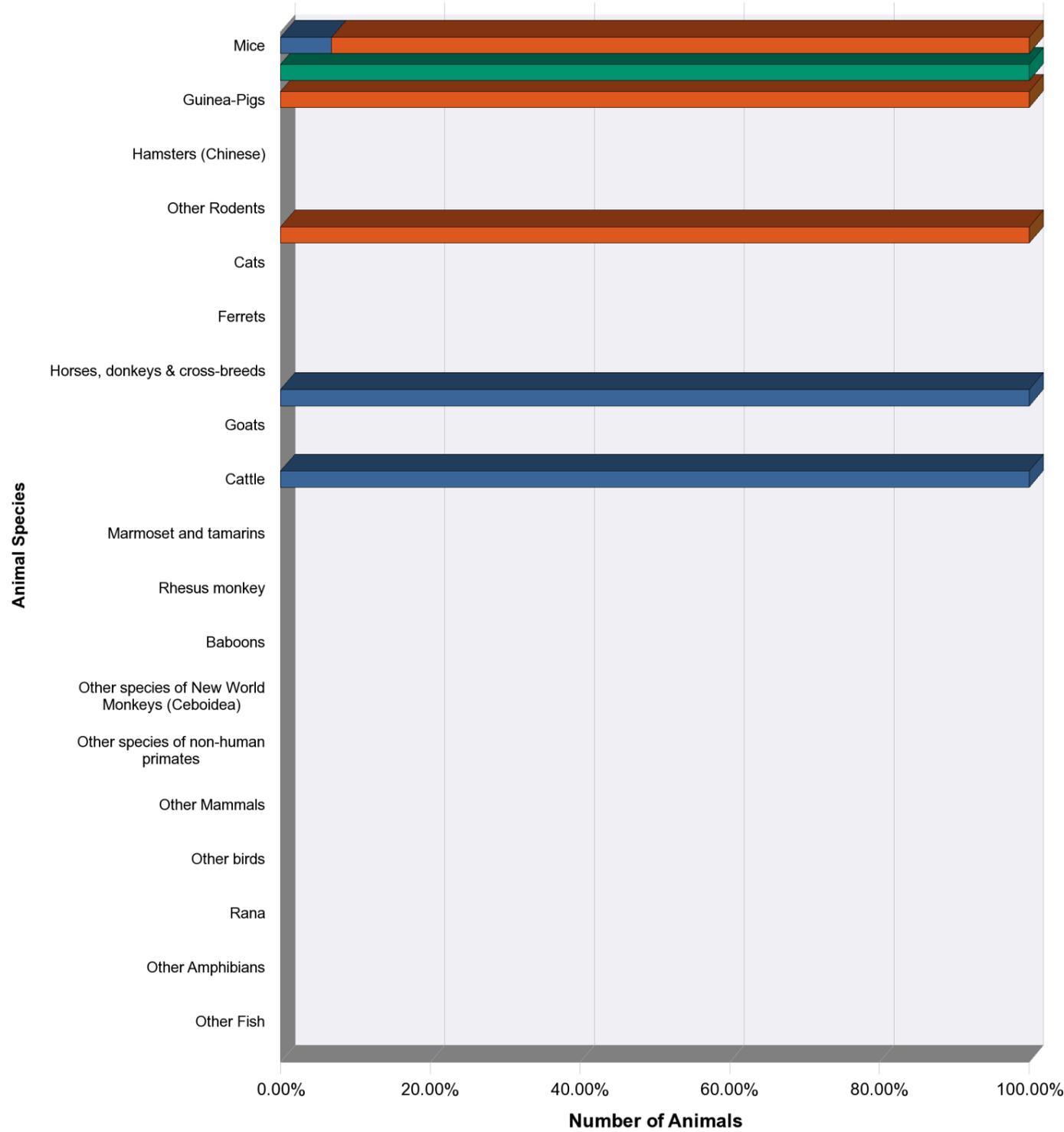
DP.C.1. Use of species in procedures by purposes

Quality control purposes					Routine production purposes					
	Batch safety testing	Pyrogenicity testing	Batch potency testing	Other quality controls	Total		Blood based products	Monoclonal antibodies	Other product types	Total
Mice	110			1,504	1,614	Mice				
Rats			2,897		2,897	Rats			3	3
Guinea-Pigs				30	30	Guinea-Pigs				
Hamsters (Syrian)						Hamsters (Syrian)				
Hamsters (Chinese)						Hamsters (Chinese)				
Mongolian gerbil						Mongolian gerbil				
Other Rodents						Other Rodents				
Rabbits				16	16	Rabbits				
Cats						Cats				
Dogs						Dogs				
Ferrets						Ferrets				
Other carnivores						Other carnivores				
Horses, donkeys & cross-breeds						Horses, donkeys & cross-breeds				
Pigs	22				22	Pigs	3		3	6
Goats						Goats			11	11
Sheep						Sheep				
Cattle	5				5	Cattle				
Prosimians						Prosimians				
Marmoset and tamarins						Marmoset and tamarins				
Cynomolgus monkey						Cynomolgus monkey				
Rhesus monkey						Rhesus monkey				
Vervets Chlorocebus spp.						Vervets Chlorocebus spp.				
Baboons						Baboons				
Squirrel monkey						Squirrel monkey				
Other species of New World Monkeys (Ceboidea)						Other species of New World Monkeys (Ceboidea)				
Other species of Old World Monkeys (Cercopithecoidea)						Other species of Old World Monkeys (Cercopithecoidea)				
Other species of non-human primates						Other species of non-human primates				
Apes						Apes				
Other Mammals						Other Mammals				
Domestic fowl						Domestic fowl				
Other birds						Other birds				
Reptiles						Reptiles				
Rana						Rana				
Xenopus						Xenopus				
Other Amphibians						Other Amphibians				
Zebra fish						Zebra fish				
Other Fish						Other Fish				
Cephalopods						Cephalopods				

DP.C.1. Use of species in procedures by purposes

	Batch safety testing	Pyrogenicity testing	Batch potency testing	Other quality controls	Total
Total	137		2,897	1,550	4,584
%	2.99%		63.20%	33.81%	

	Blood based products	Monoclonal antibodies	Other product types	Total
Total	3	14	3	20
%	15.00%	70.00%	15.00%	



Purpose
■ Batch safety testing ■ Pyrogenicity testing ■ Batch potency testing ■ Other quality controls

Purpose
■ Other toxicity/safety testing ■ Blood based products ■ Monoclonal antibodies

DP.C.1. Use of species in procedures by purposes

	Acute and sub-acute	Skin irritation/corrosion	Skin sensitisation	Repeated dose toxicity	Carcinogenicity	Genotoxicity	Reproductive toxicity	Developmental toxicity	Neurotoxicity	Kinetics	Pharmacodynamics (incl safety pharmacology)	Phototoxicity	Ecotoxicity	Safety testing in food and feed area	Target animal safety	Eye irritation/corrosion	Other toxicity/safety testing	Total
Zebra fish													1,170					1,170
Other Fish													180					180
Cephalopods																		
Total	939	24	192	1,505		48				337	48		1,350			3		4,446
%	21.12%	0.54%	4.32%	33.85%		1.08%				7.58%	1.08%		30.36%			0.07%		

DP.C.1. Use of species in procedures by purposes

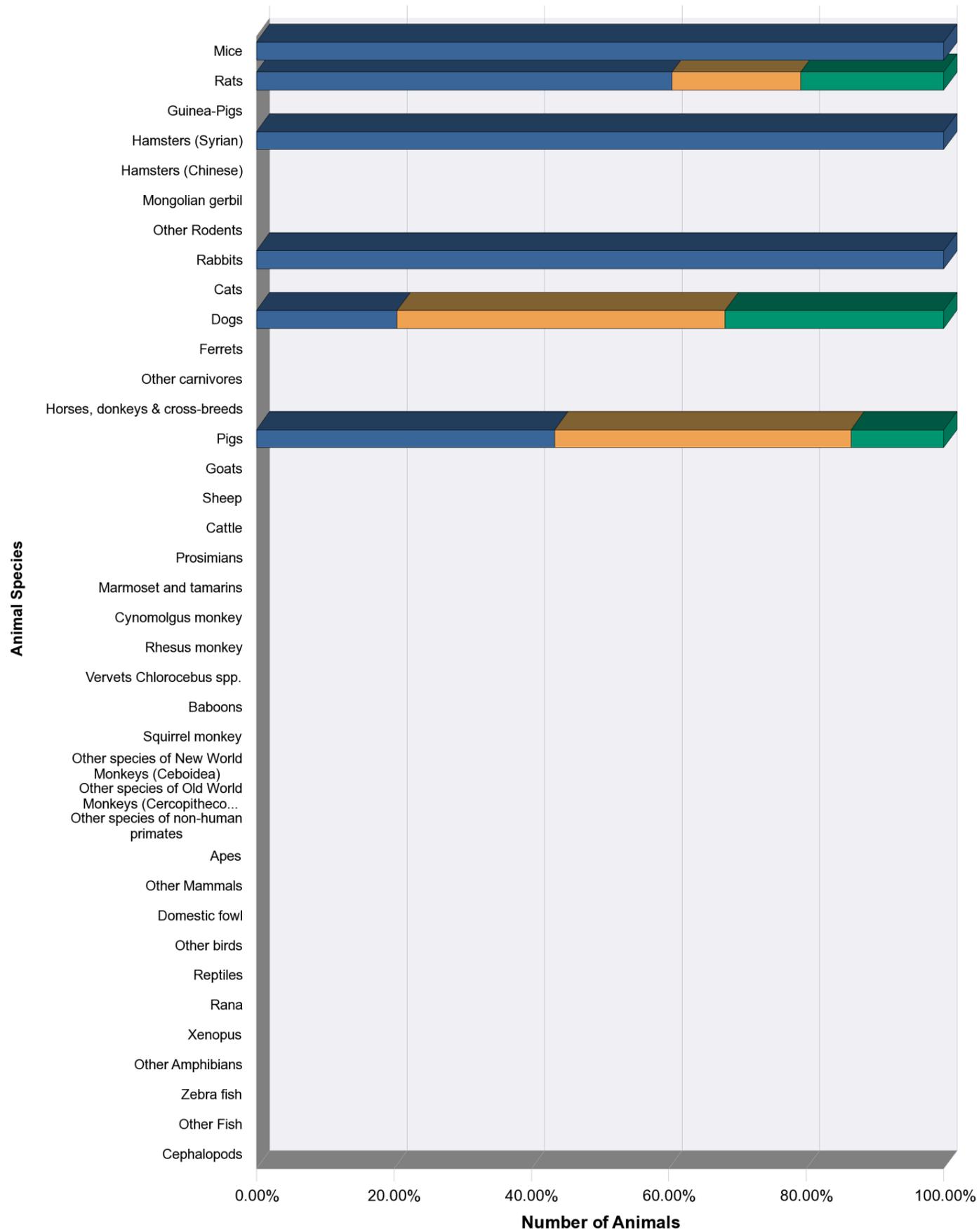
Repeated dose toxicity purposes

	up to 28 days	29 - 90 days	> 90 days	Total
Mice	225			225
Rats	465	144	160	769
Guinea-Pigs				
Hamsters (Syrian)	8			8
Hamsters (Chinese)				
Mongolian gerbil				
Other Rodents				
Rabbits	16			16
Cats				
Dogs	36	84	56	176
Ferrets				
Other carnivores				
Horses, donkeys & cross-breeds				
Pigs	135	134	42	311
Goats				
Sheep				
Cattle				
Prosimians				
Marmoset and tamarins				
Cynomolgus monkey				
Rhesus monkey				
Vervets				
Chlorocebus spp.				
Baboons				
Squirrel monkey				
Other species of New World Monkeys (Ceboidea)				
Other species of Old World Monkeys (Cercopithecoidea)				
Other species of non-human primates				
Apes				
Other Mammals				
Domestic fowl				
Other birds				
Reptiles				
Rana				
Xenopus				
Other Amphibians				
Zebra fish				
Other Fish				
Cephalopods				
Total	885	362	258	1,505
%	58.80%	24.05%	17.14%	

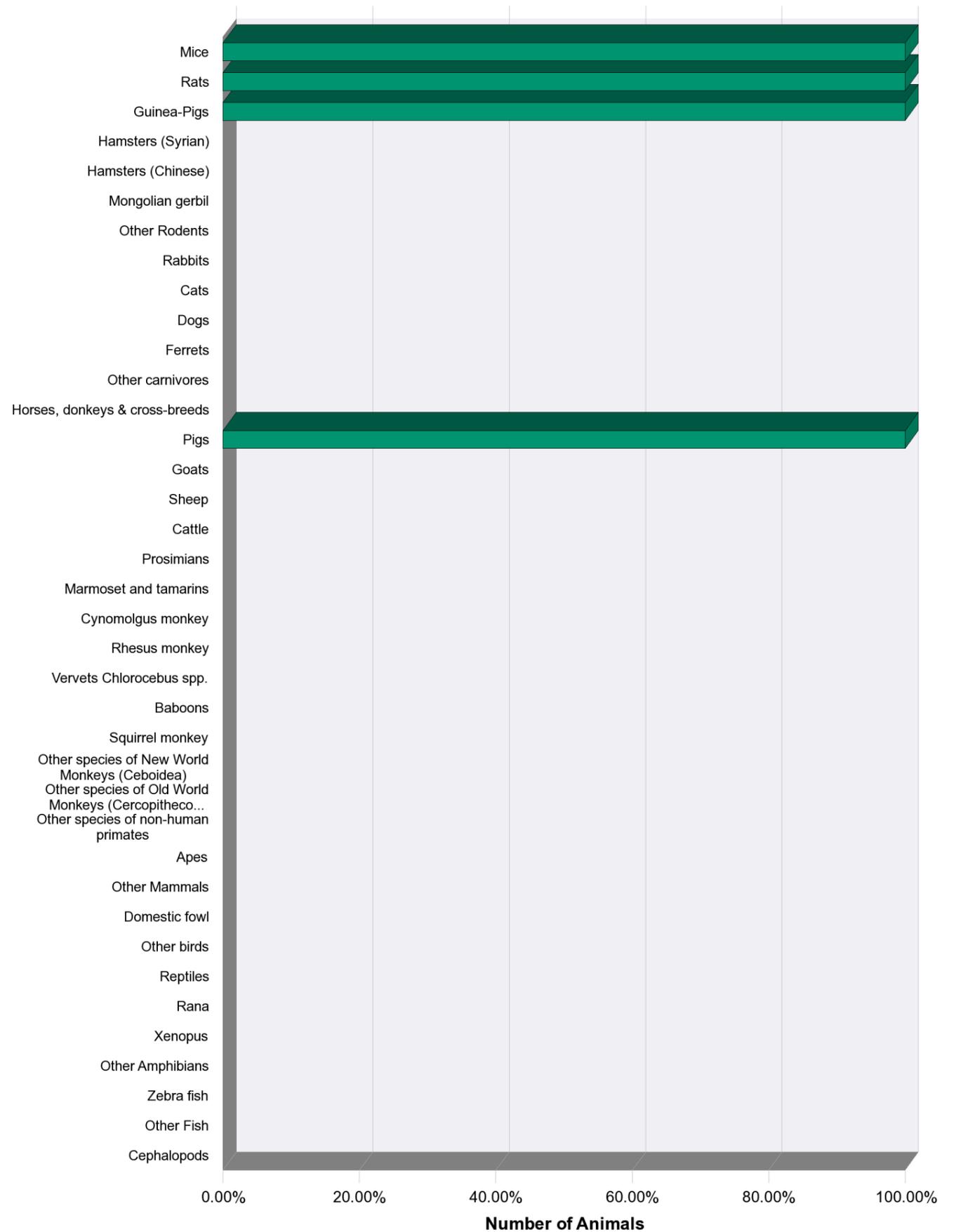
Acute and sub-acute toxicity testing methods

	LD50, LC50	Other lethal methods	Non lethal methods	Total
Mice			713	713
Rats			161	161
Guinea-Pigs			60	60
Hamsters (Syrian)				
Hamsters (Chinese)				
Mongolian gerbil				
Other Rodents				
Rabbits				
Cats				
Dogs				
Ferrets				
Other carnivores				
Horses, donkeys & cross-breeds				
Pigs			5	5
Goats				
Sheep				
Cattle				
Prosimians				
Marmoset and tamarins				
Cynomolgus monkey				
Rhesus monkey				
Vervets				
Chlorocebus spp.				
Baboons				
Squirrel monkey				
Other species of New World Monkeys (Ceboidea)				
Other species of Old World Monkeys (Cercopithecoidea)				
Other species of non-human primates				
Apes				
Other Mammals				
Domestic fowl				
Other birds				
Reptiles				
Rana				
Xenopus				
Other Amphibians				
Zebra fish				
Other Fish				
Cephalopods				
Total			939	939
%			100.00%	

DP.C.1. Use of species in procedures by purposes



■ up to 28 days ■ 29 - 90 days ■ > 90 days



■ LD50, LC50 ■ Other lethal methods ■ Non lethal methods

DP.C.1. Use of species in procedures by purposes

Ecotoxicity purposes

	Acute toxicity	Chronic toxicity	Reproductive ecotoxicity	Endocrine activity	Bioaccumulation	Other ecotoxicity	Total
Mice							
Rats							
Guinea-Pigs							
Hamsters (Syrian)							
Hamsters (Chinese)							
Mongolian gerbil							
Other Rodents							
Rabbits							
Cats							
Dogs							
Ferrets							
Other carnivores							
Horses, donkeys & cross-breeds							
Pigs							
Goats							
Sheep							
Cattle							
Prosimians							
Marmoset and tamarins							
Cynomolgus monkey							
Rhesus monkey							
Vervets Chlorocebus spp.							
Baboons							
Squirrel monkey							
Other species of New World Monkeys (Ceboidea)							
Other species of Old World Monkeys (Cercopithecoidea)							
Other species of non-human primates							
Apes							
Other Mammals							
Domestic fowl							
Other birds							
Reptiles							
Rana							
Xenopus							
Other Amphibians							
Zebra fish		1,170					1,170
Other Fish		180					180
Cephalopods							
Total		1,350					1,350
%		100.00%					

DP.C.1. Use of species in procedures by purposes

