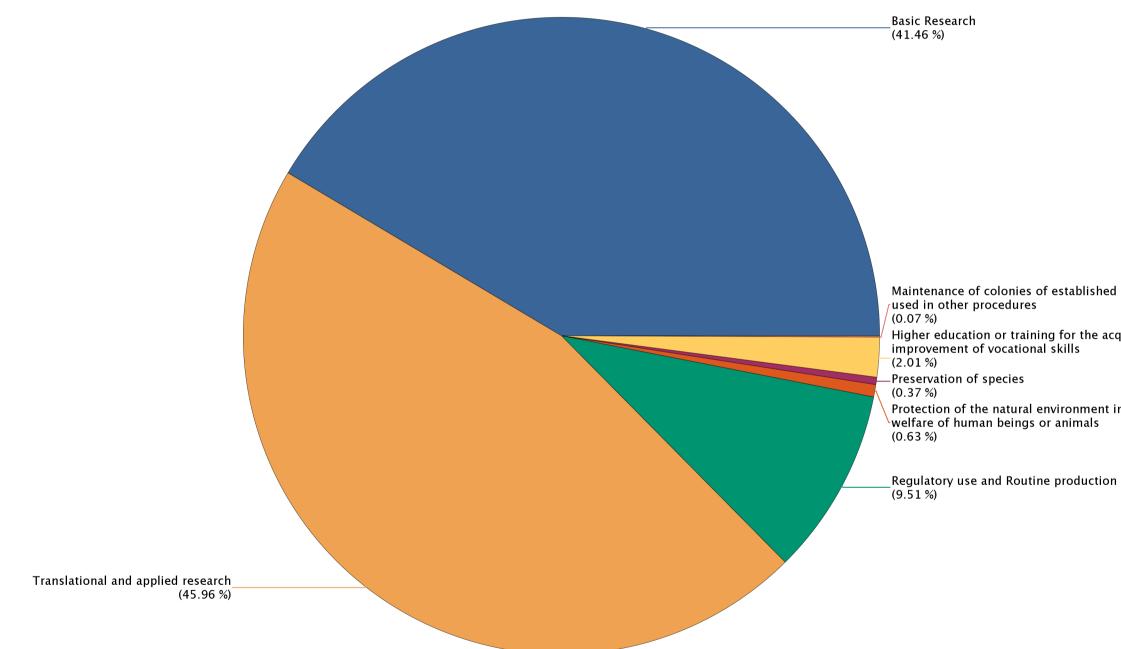
Primary purposes

						Primary purposes						
	Basic Research	Translational and applied research		Regulatory use and		Preservation of species	Higher education o 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
Mice		81,952	76,792				5	2,285		179		177,971
Rats		8,748	24,337					1,430				37,280
Guinea-Pigs		162	318									2,659
Hamsters												292
(Syrian)			237	55								292
Hamsters (Chinese)												
Mongolian gerbil												
Other Rodents		13										13
Rabbits		56	2,646	397				17				3,116
Cats			3									3
Dogs		128	119	122				1				370
Ferrets												
Other		0.000										3,347
carnivores		2,809	538									-,
Horses, donkeys & cross-breeds		20	148	4				9				181
Pigs		1,618	3,456				5	1,273				7,643
Goats		1,010	13			· · · · · · · · · · · · · · · · · · ·		1,275				
Sheep		61	10	14				3				13 78
Cattle		502	271					114				1,999
Prosimians		002	271		1,110							1,000
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												
(Cercopithecoid ea)												
Other species of non-human												
primates												
Apes Other Mammals		18	10		1							20
Domestic fowl		697	1,586									29 2,283
Other birds		66	1,000	4	343	146	3					559
Reptiles		37	118		040	14(155
Rana		809	110									155 809
Xenopus		1,389										1,389
Other		· · · ·										
Amphibians		94										94

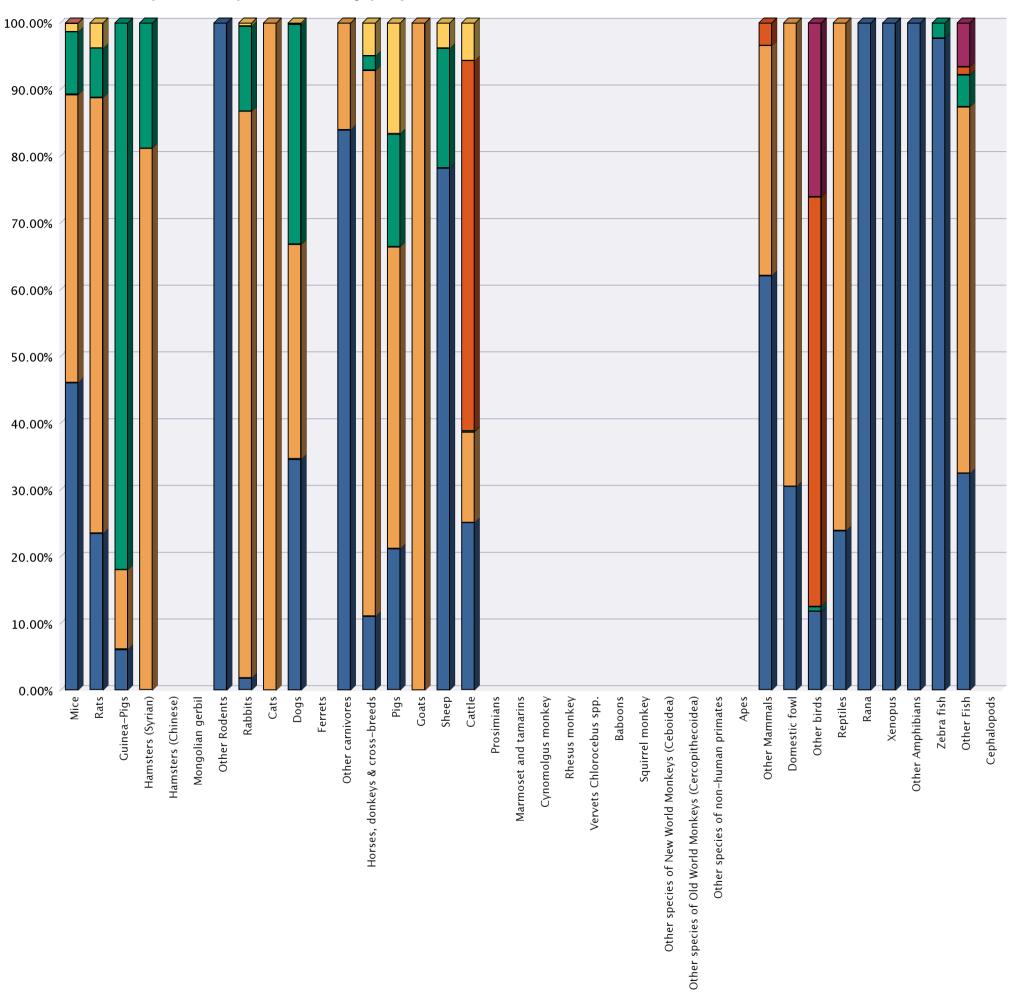
	Basic Research	Translational and applied research			Protection of the natural environment in the interests of the health or welfare of human beings or animals	Preservation of species	Higher education or training for the acquisition, maintenance or improvement of vocational skills	Forensic enquiries	Maintenance of colonies of established genetically altered animals, not used in other procedures	Non-EU Purpose	Total
Zebra fish		2,614		63	3						2,677
Other Fish		3,862	6,524	571	144	78	37				11,888
Cephalopods											
Total	10	5,655	117,116	24,225	5 1,598	94	5,1	32	179)	254,848



Maintenance of colonies of established genetically altered animals, not

Higher education or training for the acquisition, maintenance or improvement of vocational skills (2.01 %)

Protection of the natural environment in the interests of the health or welfare of human beings or animals



- 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

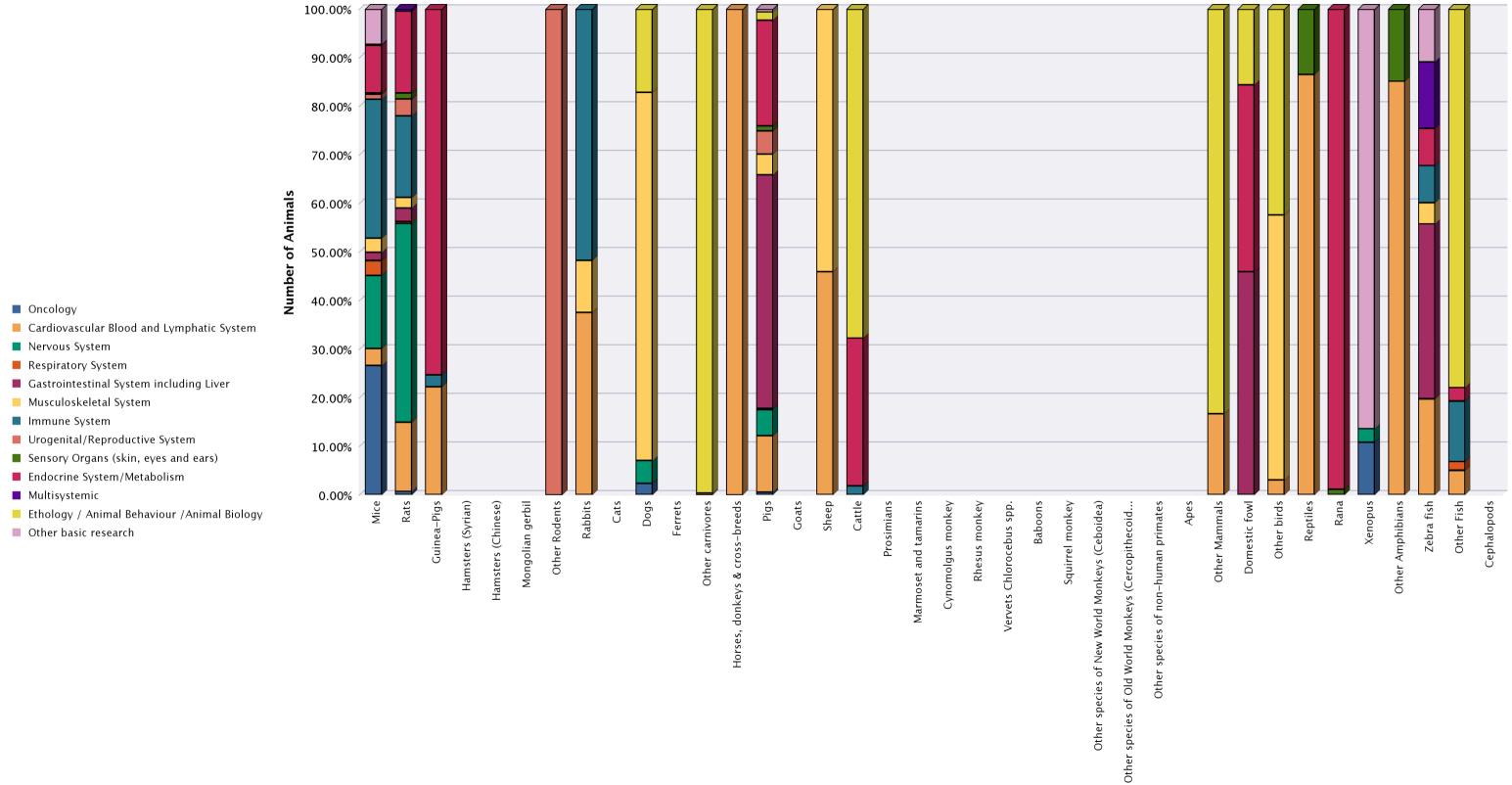
Number of Animals

- 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

Basic research purposes

							Basic	esearch pur	poses						
		Cardiovascular Blood and Lymphatic System	Nervous System		Respiratory	Gastrointestin al System including Liver	Musculoskelet al 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	21,787		-	12,317	2,501						49 8,03				81,952
Rats	62			3,577	32			1,46			07 1,474			· · ·	8,748
Guinea-Pigs			36						4		12:	2			162
Hamsters (Syrian)															
Hamsters (Chinese)															
Mongolian gerbil															
Other Rodents									1	3					13 56
Rabbits		2	21				6	2	29						56
Cats	3	.		6			97						22	2	128
Dogs Ferrets				0			97							•	120
Other carnivores			10										2,799	9	2,809
Horses, donkeys &													2,100		20
cross-breeds			20							_		-			
Pigs	8	18	88	87	4	778	69		7	7	17 352	2	28	3 10	1,618
Goats Sheep			28				33								61
Cattle			20						9		15	3	340)	502
Prosimians															002
Marmoset and tamarins															
Cynomolgus monkey															
Rhesus monkey															
Vervets Chlorocebus															
spp. Baboons															
Squirrel monkey															
Other species of New World Monkeys (Ceboidea)															
(Ceboidea) Other species of Old World															
Monkeys (Cercopithecoid ea)															
Other species of non-human primates															
Apes															
Other Mammals			3										15		18
Domestic fowl			0			320					268	3	109		697
Other birds			2				36				5		28	<u>ک</u>	18 697 66 37
Reptiles Rana			32								5 9 80	1			809
Xenopus	150)		39							000			1,200	
Other	130			00										1,200	
Amphibians Zebra fish			80 915			942	114	20	00		20) 358	3	285	94 2,614
						- 12						500			_,•

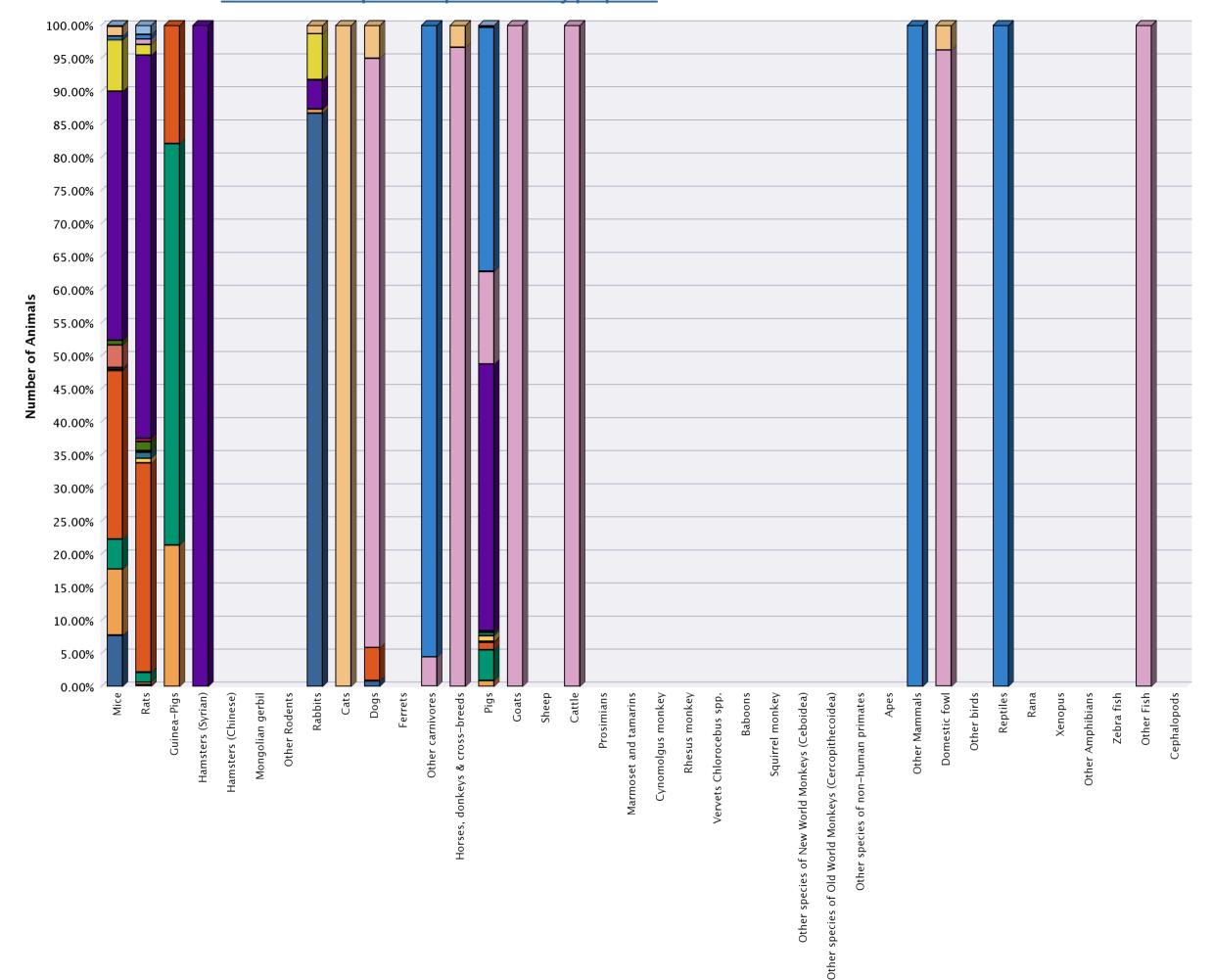
	Oncology	Cardiovascul Blood and Lymphatic System	lar Nervous System	Respiratory System	Gastrointestin al System including Liver		Immune System		Sensory Organs (skin, eyes and ears)	Endocrine System/ Metabolism		Ethology / Animal Behaviour / Animal Biology	Other basic research	Total
Other Fish			193	71	1		480			108		3,010		3,862
Cephalopods														
Total	I 2	2,010 5	5,251 16,02	2,608	3,682	2 2,935	25,598	1,238	3 40	1 11,514	573	6,370	7,449	105,655
%	5 20	.83% 4.	.97% 15.17%	% 2.47%	3.48%	2.78%	24.23%	1.17%	6 0.38%	6 10.90%	0.54%	6.03%	7.05%	



Translational and applied research purposes

							Transie		applied is	esearch pu	iiposes							
	Human Cancer	Human Infectious	Human Cardiovas cular Disorders	and Mental	Human Respirator y Disorders	Human Gastrointe stinal Disorders including Liver	Human Musculosk eletal Disorders	Human Immune Disorders	Human Urogenital/ Reproducti ve Disorders	Human Sensory Organ Disorders (skin, eyes and ears)	m	Other Human Disorders	Animal Diseases and Disorders	Animal Welfare	Diagnosis of diseases	Plant diseases	Non- regulatory toxicology and ecotoxicol ogy	Total
Mice	5,933	3 7,691	3,481	19,540) 4	3 100	216	2,628	3 56	2	28,901	5,958	3 20	0 43	1 1,11	16	172	76,792
Rats	58	3 93	366	7,701		174	226	50) 34	0 118	3 14,098	394	204	4 16	8		347	24,337
Guinea-Pigs		68	193	57	,													318
Hamsters (Syrian)											237							237
Hamsters (Chinese)																		
Mongolian gerbil																		
Other Rodents																		
Rabbits	2,293	3 16									117	185	5			35		2,646
Cats																3		3
Dogs	· · · · ·	1		6	i								100	6		6		119
Ferrets																		
Other carnivores													24	4 51	4			538
Horses, donkeys & cross-breeds													143	2		5		148
Pigs		31	160	40	. .	5 29) 16	<u> </u>		2 8	3 1,394		483			6	7	3,456
Goats		51	100	+0		20				2	1,004		1:		5	0	1	13
Sheep																		10
Cattle													27	1				271
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 (Cercopithecoid																		
ea) Other species																		
of non-human primates																		
Apes																		
Other Mammals Domestic fowl													1,520		0	60		10 1,586
Other birds													1,020					1,000
Reptiles														11	8			118
Rana																		
Xenopus																		

	Human Cancer	Human Infectious Disorders	Human Cardiovas cular Disorders	Human Nervous and Mental Disorders	Human Respirator y	Human Gastrointe stinal Disorders including Liver	eletal	Human Immune Disorders	Human Urogenital/ Reproducti ve Disorders	Disorders	m	Human	Animal Diseases and Disorders	Animal Welfare	Diagnosis of diseases	Plant diseases	Non- regulatory toxicology and ecotoxicol ogy	Total
Other Amphibians																		
Zebra fish																		
Other Fish													6,524					6,524
Cephalopods																		
Tota	al 8,28	5 7,89	9 4,200	27,344	4 48	303	3 458	2,678	3 904	1 12	6 44,747	6,537	9,314	2,516	6 1,231		526	117,116
q	% 7.07%	% 6.74%	% 3.59%	23.35%	% 0.04%	0.26%	6 0.39%	2.29%	6 0.77%	0.119	% 38.21%	5.58%	7.95%	2.15%	<i>ы</i> 1.05%		0.45%	

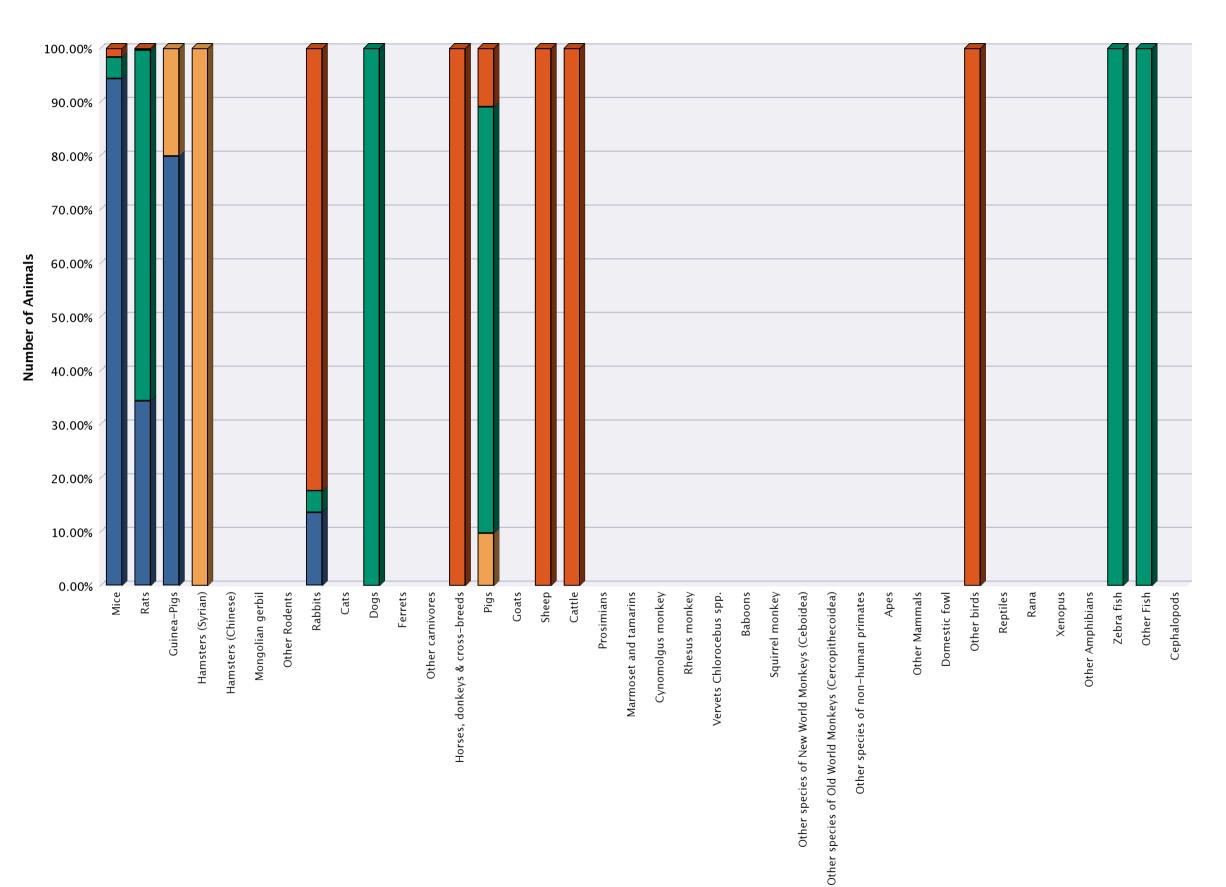


Human Infectious Disorders Human Cardiovascular Disorders Human Nervous and Mental Disorders Human Respiratory Disorders Human Gastrointestinal Disorders including Liver Human Musculoskeletal Disorders Human Immune Disorders Human Urogenital/Reproductive Disorders Human Sensory Organ Disorders (skin, 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

Human Cancer

Regulatory use and routine production purposes

QuestionMiceImage: Constraint of the section of the s	evality control (incl batch safety and potency esting) 15,800 950 1,741	T Other efficacy and tolerance testing P 438	oxicity and other safety testing including harmacology 674 1,805	Routine production 284	Total 16,758
MiceRatsGuinea-PigsHamsters (Syrian)Hamsters (Chinese)Mongolian gerbilOther Rodents	15,800 950		674		16.758
RatsGuinea-PigsHamsters (Syrian)Hamsters (Chinese)Mongolian gerbilOther Rodents	950	438			
Guinea-Pigs Hamsters (Syrian) Hamsters (Chinese) Mongolian gerbil Other Rodents		438		10	2,765
Hamsters (Syrian) Hamsters (Chinese) Mongolian gerbil Other Rodents					2,179
Hamsters (Chinese) Mongolian gerbil Other Rodents		55			55
(Chinese) Mongolian gerbil Other Rodents					
Other Rodents					
Rabbits	-		10		0.07
	54		16	327	397
Cats					100
Dogs			122		122
Ferrets					
Other carnivores					
Horses, donkeys &					4
cross-breeds				4	1 00 1
Pigs		126	1,024	141	1,291
Goats					
Sheep				14	14
Cattle				2	2
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 Mermale					
Other Mammals					
Domestic fowl					
Other birds				4	4
Reptiles					
Rana					
Xenopus					
Other Amphibians					
Zebra fish			63		63
Other Fish			571		571
Cephalopods					
Total	18,545	619	4,275	786	24,225
%	76.55%	2.56%	17.65%	3.24%	



- Quality control (incl batch safety and potency testing)
- Other efficacy and tolerance testing
- Toxicity and other safety testing including pharmacology
- Routine production

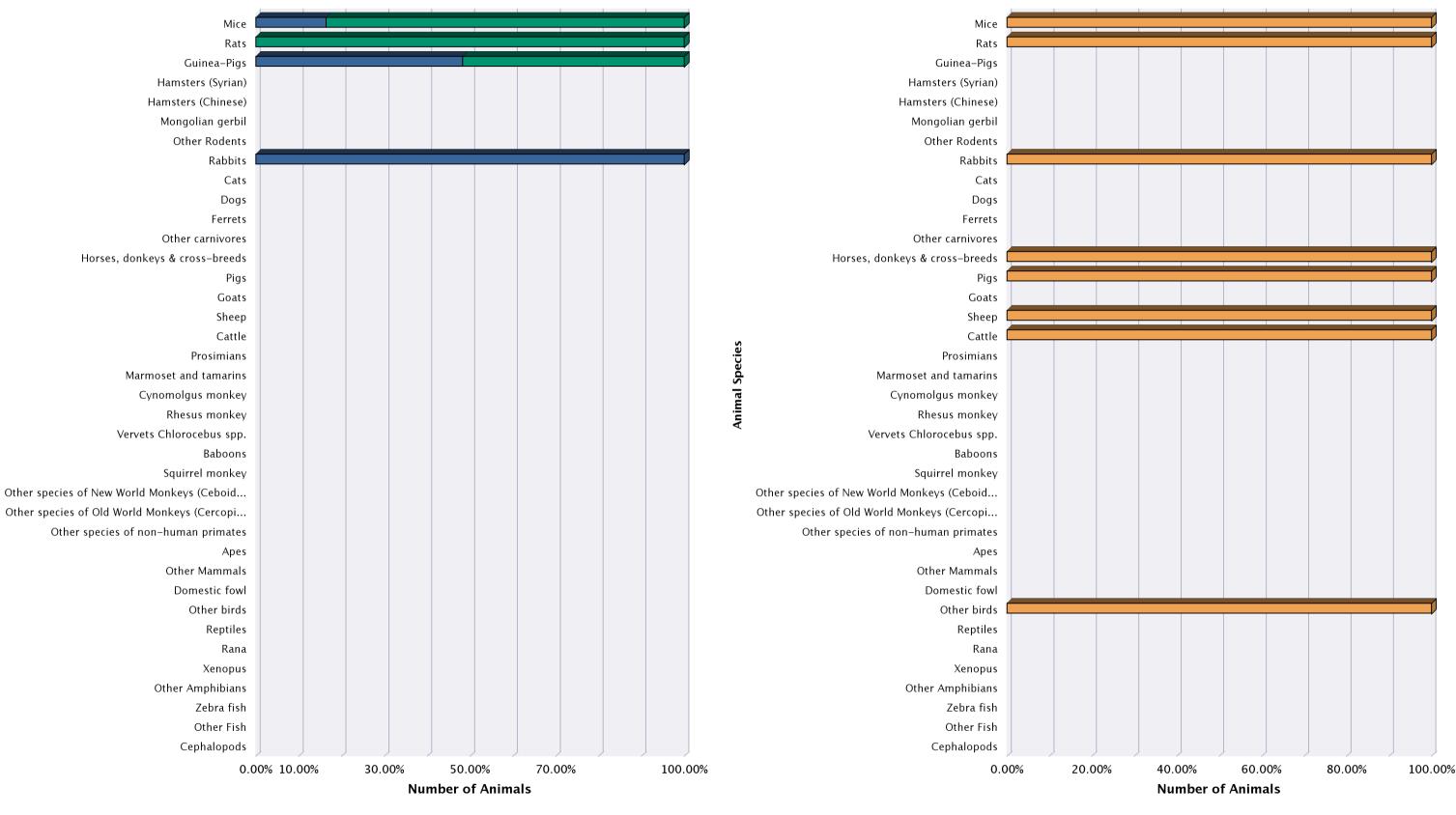
Animal Species

		Quality cont	trol purposes					Routine production
			Batch potency	Other quality	Total		Blood based products	Other product types
	Batch safety testing	Pyrogenicity testing	testing	controls		Mice		284
Mice	2,591		13,209		15,800	Rats		10
Rats	0.00		950		950	Guinea-Pigs		
Guinea-Pigs	839		902		1,741	Hamsters		
Hamsters (Syrian)						(Syrian)		
Hamsters						Hamsters		
(Chinese)						(Chinese)		
Mongolian						Mongolian gerbil		
gerbil Other Rodents						Other Rodents		
Rabbits	54				54	Rabbits		327
Cats	JA				54	Cats		
Dogs						Dogs		
Ferrets						Ferrets		
Other						Other		
carnivores						carnivores		
Horses,						Horses, donkeys &		
donkeys &						cross-breeds		4
cross-breeds						Pigs		141
Pigs						Goats		
Goats						Sheep		14
Sheep Cattle						Cattle		2
Prosimians						Prosimians		
Marmoset and						Marmoset and		
tamarins						tamarins		
Cynomolgus monkey						Cynomolgus monkey		
Rhesus monkey						Rhesus monkey		
Vervets Chlorocebus						Vervets Chlorocebus		
spp.						spp. Baboons		
Baboons						Squirrel		
Squirrel monkey						monkey		
Other species						Other species of New World		
of New World Monkeys						Monkeys (Ceboidea)		
(Ceboidea)						Other species		
Other species of Old World						of Old World Monkeys		
Monkeys (Cercopithecoid						(Cercopithecoid		
ea)						ea) Other species		
Other species of non-human						of non-human primates		
primates						Apes		
Apes Other Memmele						Other Mammals		
Other Mammals Domestic fowl						Domestic fowl		
Other birds						Other birds		4
Reptiles						Reptiles		
Rana						Rana		
Xenopus						Xenopus		
Other						Other		
Amphibians						Amphibians		
Zebra fish						Zebra fish		
Other Fish						Other Fish		
Cephalopods						Cephalopods		

duction purposes

Total	es
	<i>7</i> 5
284	
10	
327	
4	
141	
14 2	
2	
4	

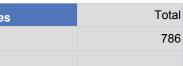
	Batch safety testing	Pyrogenicity testing	Batch potency testing	Other quality controls	Total		Blood based products	Other product types
Total			15,061		18,545	Total	786	6
%	18.79%		81.21%			%	100.00%	
,,,			• , •					



Purpose

Other toxicity/safety testing Blood based products

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

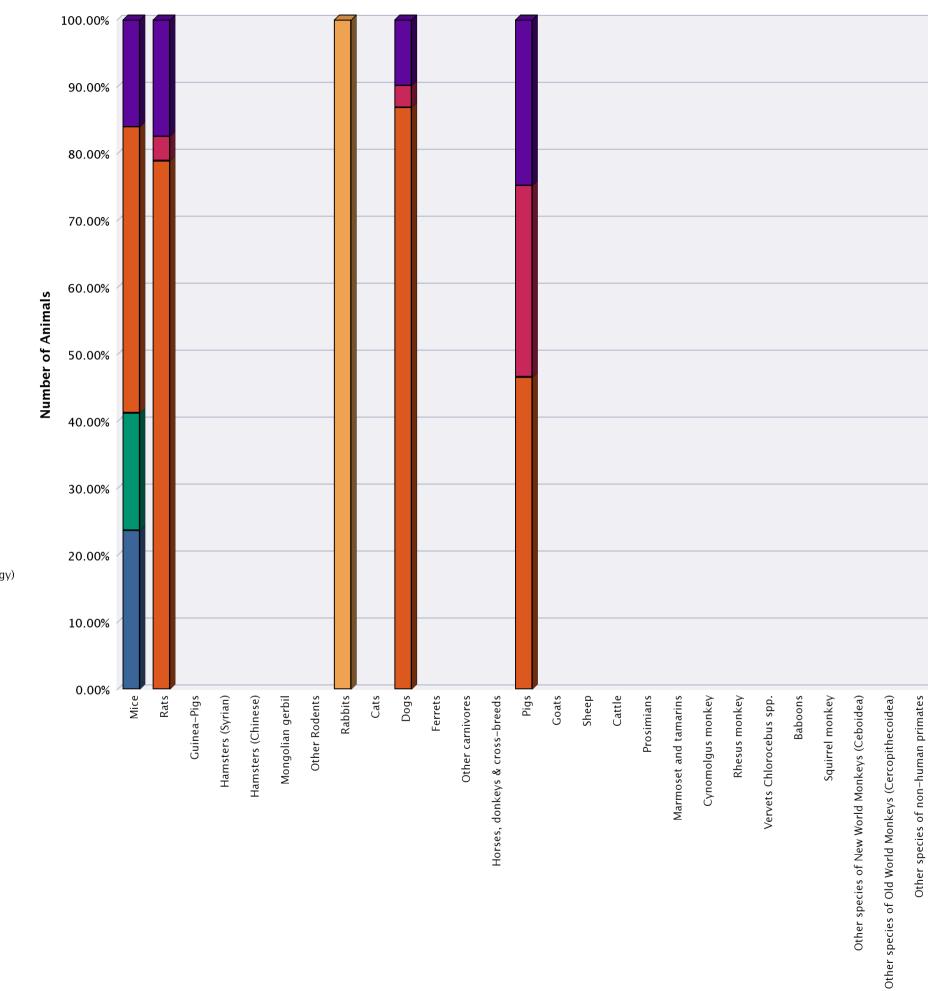




Toxicity and other safety testing by test type purposes

						Т	oxicity and	other safe	ety testing b	oy test type	e purpose	S							
	Acute and sub-acute	Skin irritation/ corrosion	Skin sensitisati on	Repeated dose toxicity	Carcinoge nicity	Genotoxici ty	Reproducti ve toxicity	Developme ntal toxicity	Neurotoxic ity	Kinetics	Pharmaco- dynamics (incl safety pharmacol ogy)	Phototoxic ity	Ecotoxicity	Safety testing in food and feed area	Target animal safety	Eye irritation/ corrosion	Other toxicity/ safety testing	т	otal
Mice	16	0	118								1(08							674
Rats				1,424	•					66	3 [.]	15						1,	805
Guinea-Pigs																			
Hamsters (Syrian)																			
Hamsters																			
(Chinese)																			
Mongolian gerbil																			
Other Rodents																			
Rabbits		1	16																16
Cats				400	.						•	10							100
Dogs Ferrets				106						2	•	12							122
Other																			
carnivores																			
Horses, donkeys & cross-breeds																			
Pigs				474						291	2	52					-	7 1,	024
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 (Cercopithecoid																			
ea) Other species of non-human primates																			
Apes																			
Other Mammals																			
Domestic fowl																			
Other birds Reptiles																			
Rana																			
Xenopus																			
Other																			
Amphibians Zebra fish													6	3					63
													0	-					

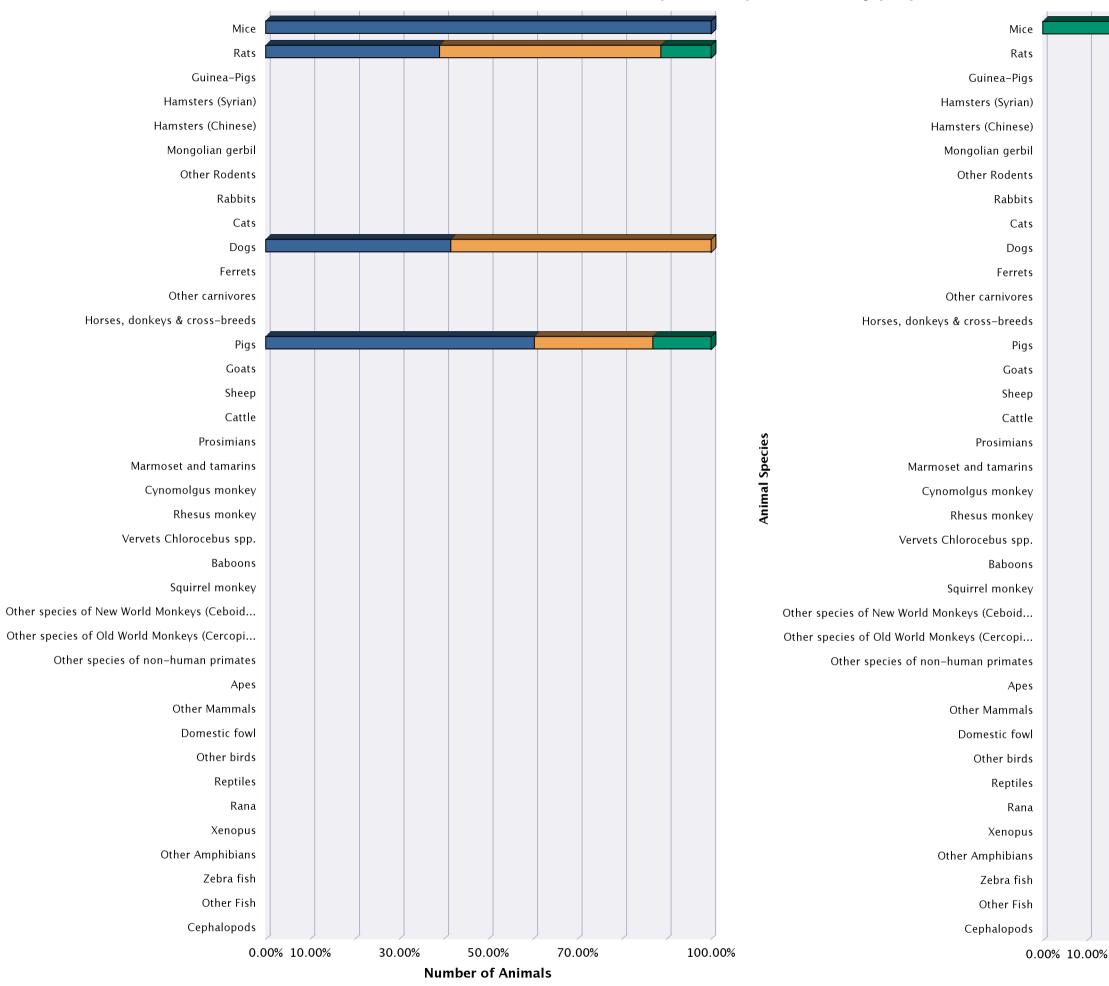
	Acute and sub-acute	Skin irritation/ corrosion		Repeated dose toxicity	Carcinoge nicity	Genotoxici ty	Reproducti ve toxicity		Neurotoxic ity	Kinetics	Pharmaco- dynamics (incl safety pharmacol ogy)		Ecotoxicity	Safety testing in food and feed area	Target animal safety	Eye irritation/ corrosion	Other toxicity/ safety testing	Total
Other Fish							480)					9	1				571
Cephalopods																		
Total	I 16	0 16	6 118	8 2,292	2		480)		361	687	7	15	4			7	4,275
%	3.74%	% 0.37%	2.76%	6 53.61%	6		11.23%)		8.44%	16.07%	6	3.60%	6			0.16%	

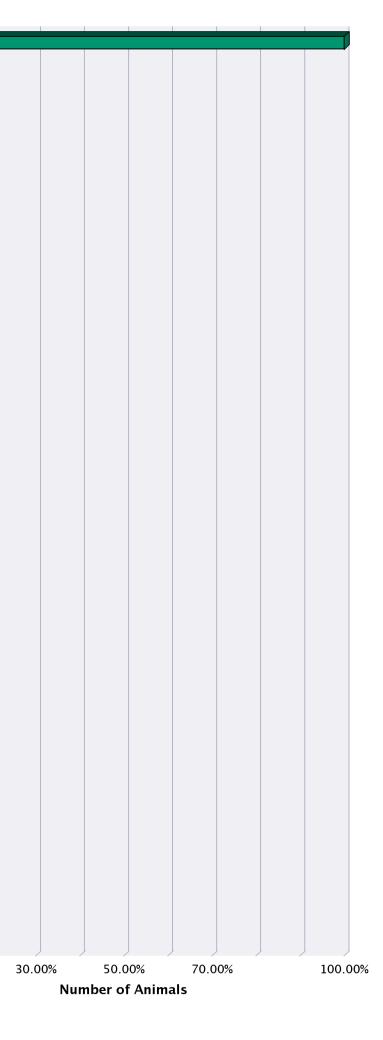


- Acute and sub-acute
- Skin irritation/corrosion
- Skin sensitisation
- Repeated dose toxicity
- Carcinogenicity
- Genotoxicity
- Reproductive toxicity
- Developmental toxicity
- Neurotoxicity
- Kinetics
- Pharmaco-dynamics (incl safety pharmacology)
- Phototoxicity
- Ecotoxicity
- Safety testing in food and feed area
- Target animal safety
- Other product types

on-human primates	Apes	Other Mammals	Domestic fowl	Other birds	Reptiles	Rana	Xenopus	Other Amphibians	Zebra fish 🛛	Other Fish	Cephalopods

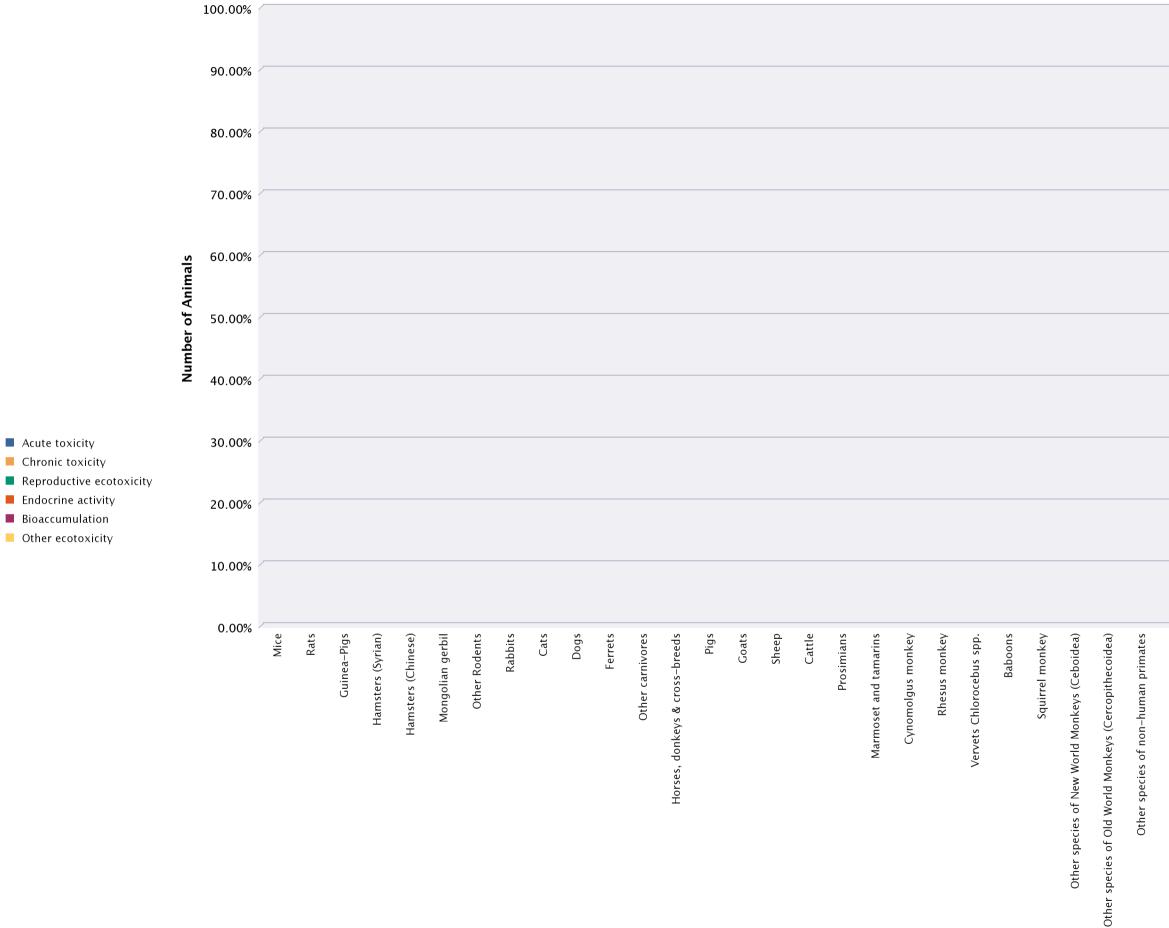
Repeated dose toxicity purposes						Acute and sub-acute toxicity testing methods						
	up to 28 days	29 - 90 days	> 90 days	Total		LD50, LC50	Other lethal methods	Non lethal methods		Total		
Mice	288			288	Mice				160	160		
Rats	556	707	161	1,424	Rats							
Guinea-Pigs					Guinea-Pigs							
Hamsters (Syrian)					Hamsters (Syrian)							
Hamsters					Hamsters							
(Chinese) Mongolian gerbil					(Chinese) Mongolian gerbil							
Other Rodents					Other Rodents							
Rabbits					Rabbits							
Cats					Cats							
Dogs	44	62		106	Dogs							
Ferrets					Ferrets							
Other carnivores					Other carnivores							
Horses, donkeys & cross-breeds					Horses, donkeys & cross-breeds							
Pigs	286	126	62	474	Pigs							
Goats					Goats							
Sheep Cattle					Sheep Cattle							
Prosimians					Prosimians							
Marmoset and					Marmoset and							
tamarins Cynomolgus					tamarins Cynomolgus							
monkey					monkey							
Rhesus monkey					Rhesus monkey							
Vervets Chlorocebus					Vervets Chlorocebus							
spp. Baboons					spp. Baboons							
Squirrel monkey					Squirrel monkey							
Other species of New World					Other species of New World							
New World					New World							
Monkeys (Ceboidea)					Monkeys (Ceboidea)							
Other species of Old World					Other species of Old World							
Monkeys					Monkeys							
(Cercopithecoide a)					(Cercopithecoid ea)							
Other species of					Other species of							
non-human primates					non-human primates							
Apes					Apes							
Other Mammals					Other Mammals							
Domestic fowl					Domestic fowl							
Other birds					Other birds							
Reptiles					Reptiles							
Rana					Rana							
Xenopus Other					Xenopus Other							
Amphibians					Amphibians							
Zebra fish					Zebra fish							
Other Fish					Other Fish							
Cephalopods					Cephalopods							
Total				2,292	Tota				160	160		
%	51.22%	39.05%	9.73%		%	0		100	0.00%			





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	63						63 91	
Other Fish	91						91	
Cephalopods								
Total	154						154	
%	100.00%							



Animal Species

Apes	Other Mammals	Domestic fowl	Other birds	Reptiles	Rana	Xenopus	Other Amphibians	Zebra fish	Other Fish	Cephalopods