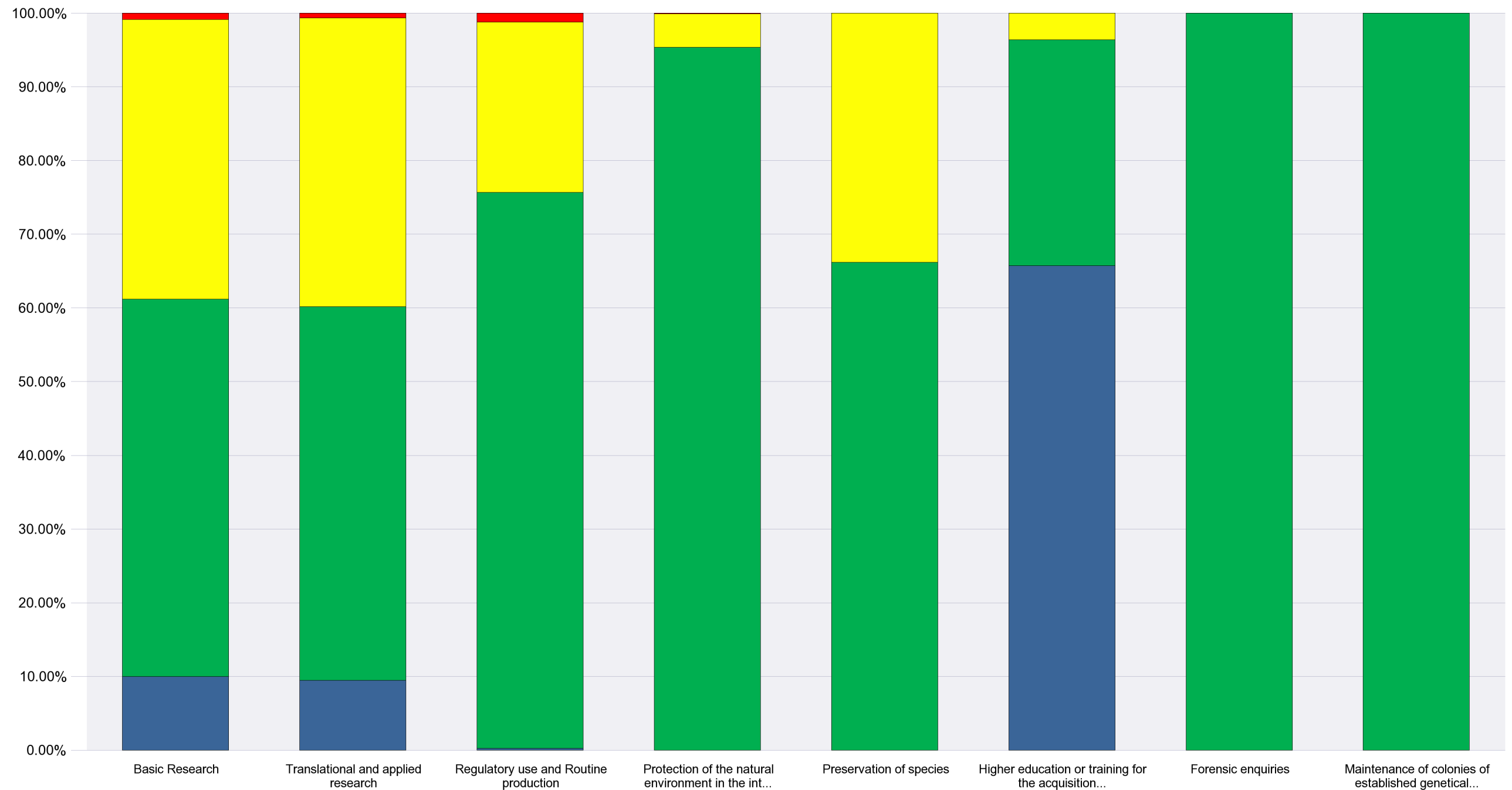


DP.E.1. Purposes and severity

Primary purposes

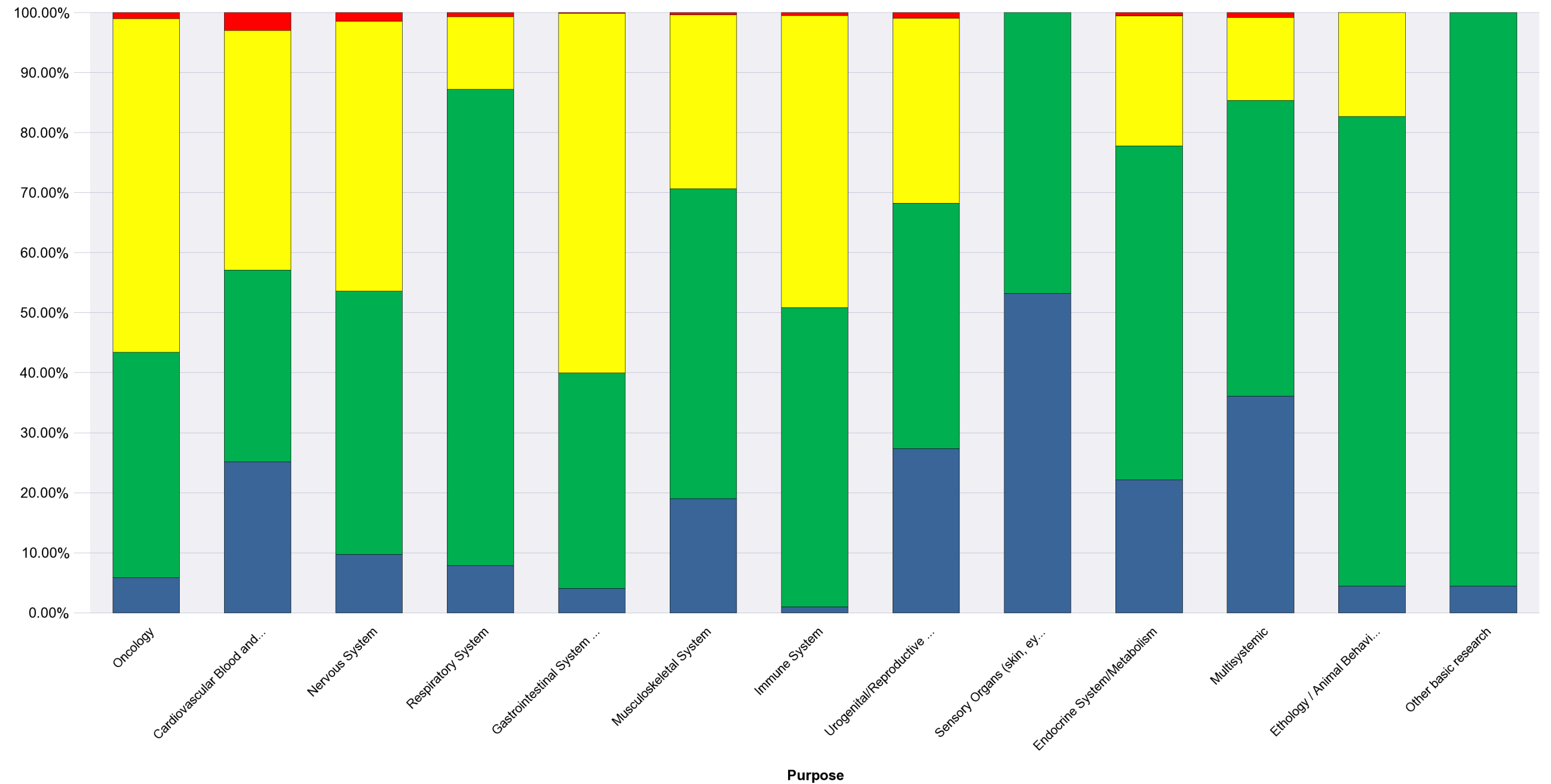
	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
Basic Research	8,367	43,053	31,882	704	84,006
Translational and applied research	11,520	61,622	47,641	812	121,595
Regulatory use and Routine production	51	15,023	4,598	244	19,916
Protection of the natural environment in the interests of the health or welfare of human beings or animals		2,742	131	2	2,875
Preservation of species		3,731	1,906		5,637
Higher education or training for the acquisition, maintenance or improvement of vocational skills	2,933	1,368	162		4,463
Forensic enquiries		16			16
Maintenance of colonies of established genetically altered animals, not used in other procedures		29			29
Total uses	22,871	127,584	86,320	1,762	238,537
%	9.59%	53.49%	36.19%	0.74%	



DP.E.1. Purposes and severity

Basic research purposes

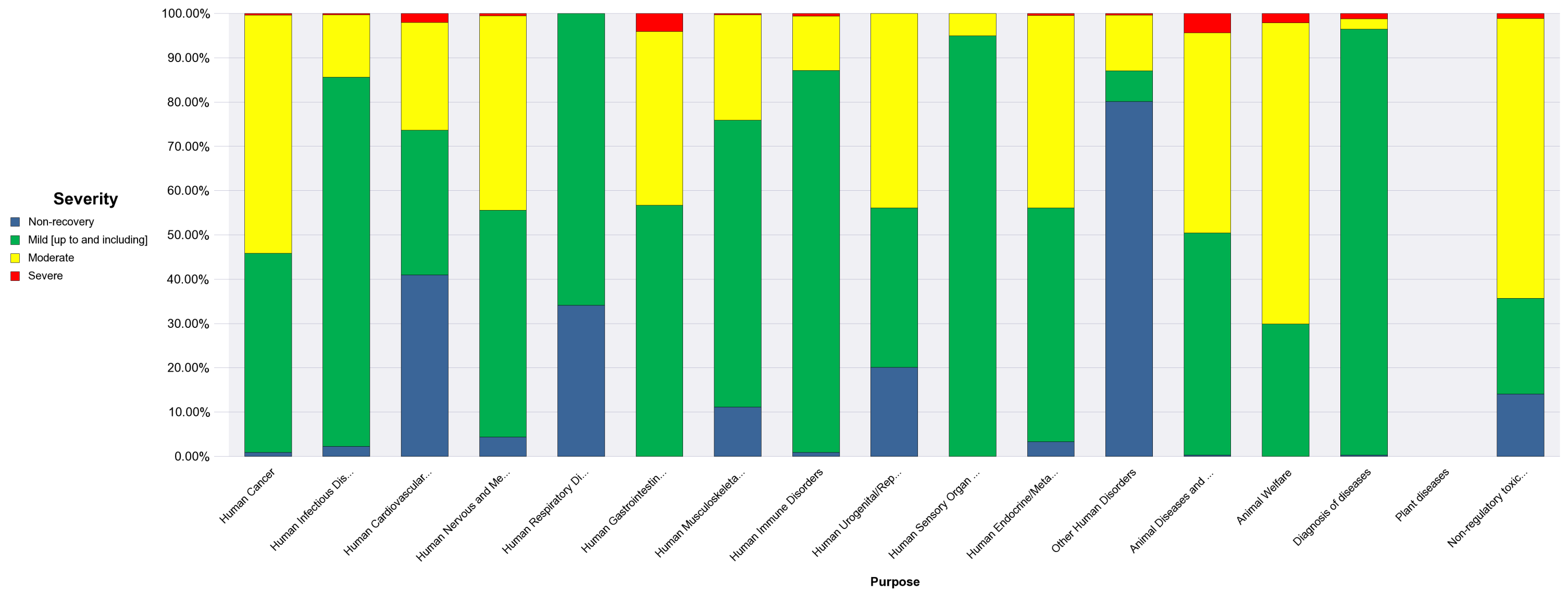
	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
Oncology	394	2,524	3,742	67	6,727
Cardiovascular Blood and Lymphatic System	1,095	1,390	1,741	128	4,354
Nervous System	1,774	8,004	8,210	266	18,254
Respiratory System	192	1,939	296	17	2,444
Gastrointestinal System including Liver	102	909	1,515	3	2,529
Musculoskeletal System	624	1,693	952	11	3,280
Immune System	240	11,791	11,519	117	23,667
Urogenital/Reproductive System	608	907	684	21	2,220
Sensory Organs (skin, eyes and ears)	41	36			77
Endocrine System/Metabolism	2,798	7,032	2,732	70	12,632
Multisystemic	175	239	67	4	485
Ethology / Animal Behaviour /Animal Biology	109	1,921	424		2,454
Other basic research	215	4,668			4,883
Total uses	8,367	43,053	31,882	704	84,006
%	9.96%	51.25%	37.95%	0.84%	



DP.E.1. Purposes and severity

Translational and applied research purposes

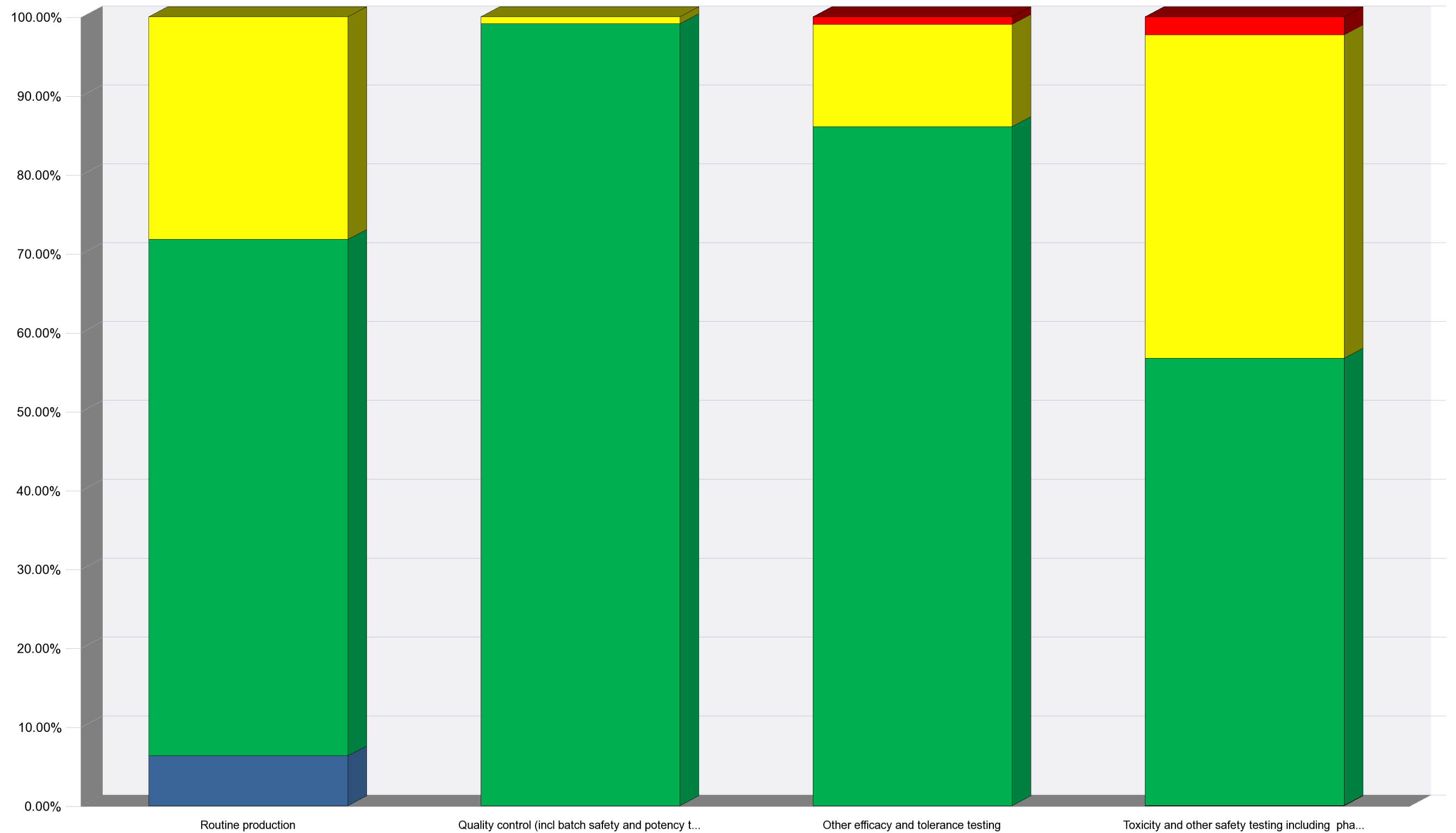
	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
Human Cancer	160	8,284	9,915	70	18,429
Human Infectious Disorders	173	6,388	1,084	20	7,665
Human Cardiovascular Disorders	825	660	490	41	2,016
Human Nervous and Mental Disorders	1,378	16,140	13,835	156	31,509
Human Respiratory Disorders	60	116			176
Human Gastrointestinal Disorders including Liver		432	299	31	762
Human Musculoskeletal Disorders	42	245	90	1	378
Human Immune Disorders	45	4,276	610	28	4,959
Human Urogenital/Reproductive Disorders	130	233	284		647
Human Sensory Organ Disorders (skin, eyes and ears)		319	17		336
Human Endocrine/Metabolism Disorders	1,229	19,531	16,093	162	37,015
Other Human Disorders	7,348	635	1,151	34	9,168
Animal Diseases and Disorders	15	2,421	2,178	211	4,825
Animal Welfare		469	1,066	33	1,568
Diagnosis of diseases	4	1,303	32	16	1,355
Plant diseases					
Non-regulatory toxicology and ecotoxicology	111	170	497	9	787
Total uses	11,520	61,622	47,641	812	121,595
%	9.47%	50.68%	39.18%	0.67%	



DP.E.1. Purposes and severity

Regulatory use and routine production purposes

	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
Routine production	47	487	210		744
Quality control (incl batch safety and potency testing)		8,069	70		8,139
Other efficacy and tolerance testing		624	94	7	725
Toxicity and other safety testing including pharmacology	4	5,843	4,224	237	10,308
Total uses	51	15,023	4,598	244	19,916
%	0.26%	75.43%	23.09%	1.23%	



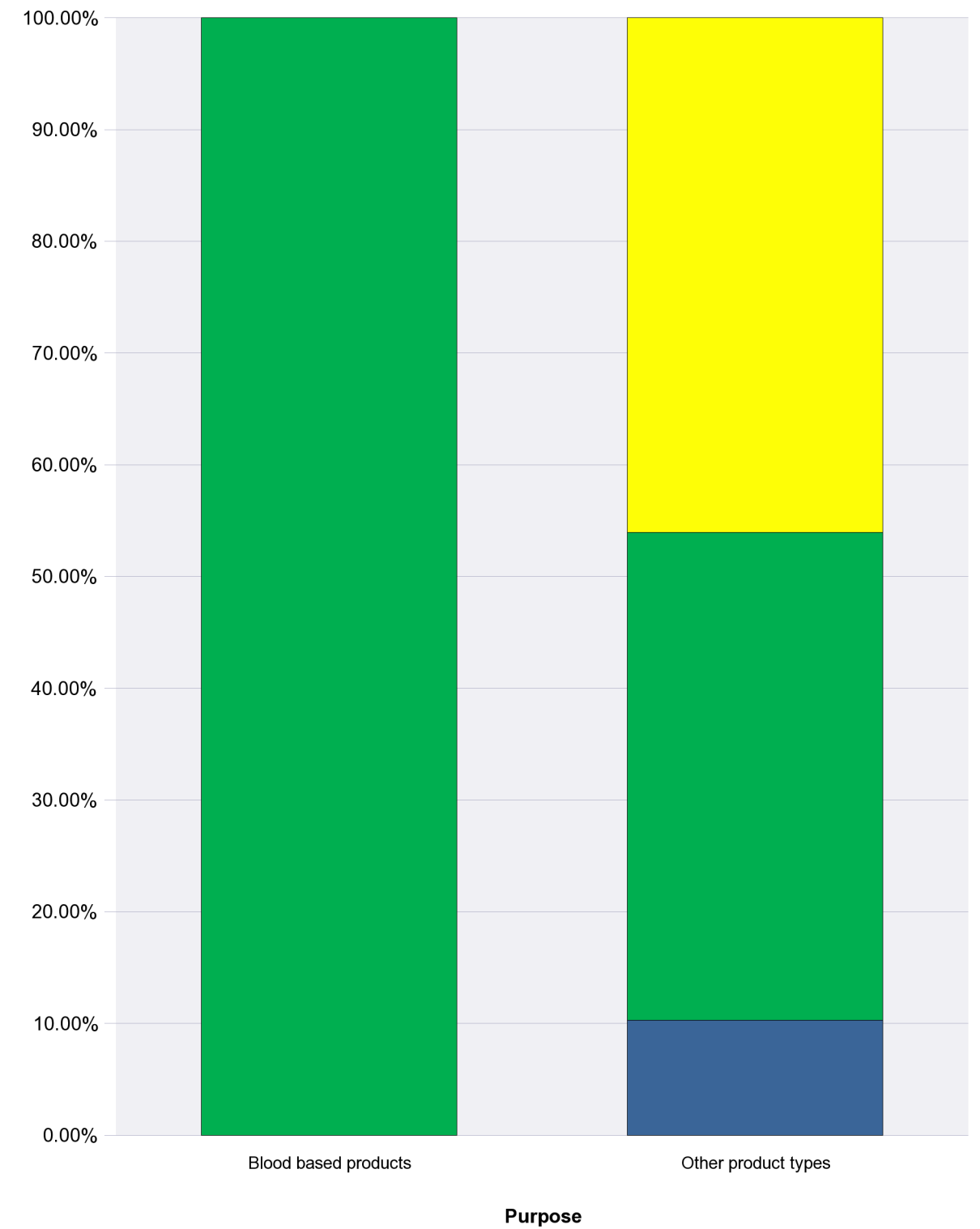
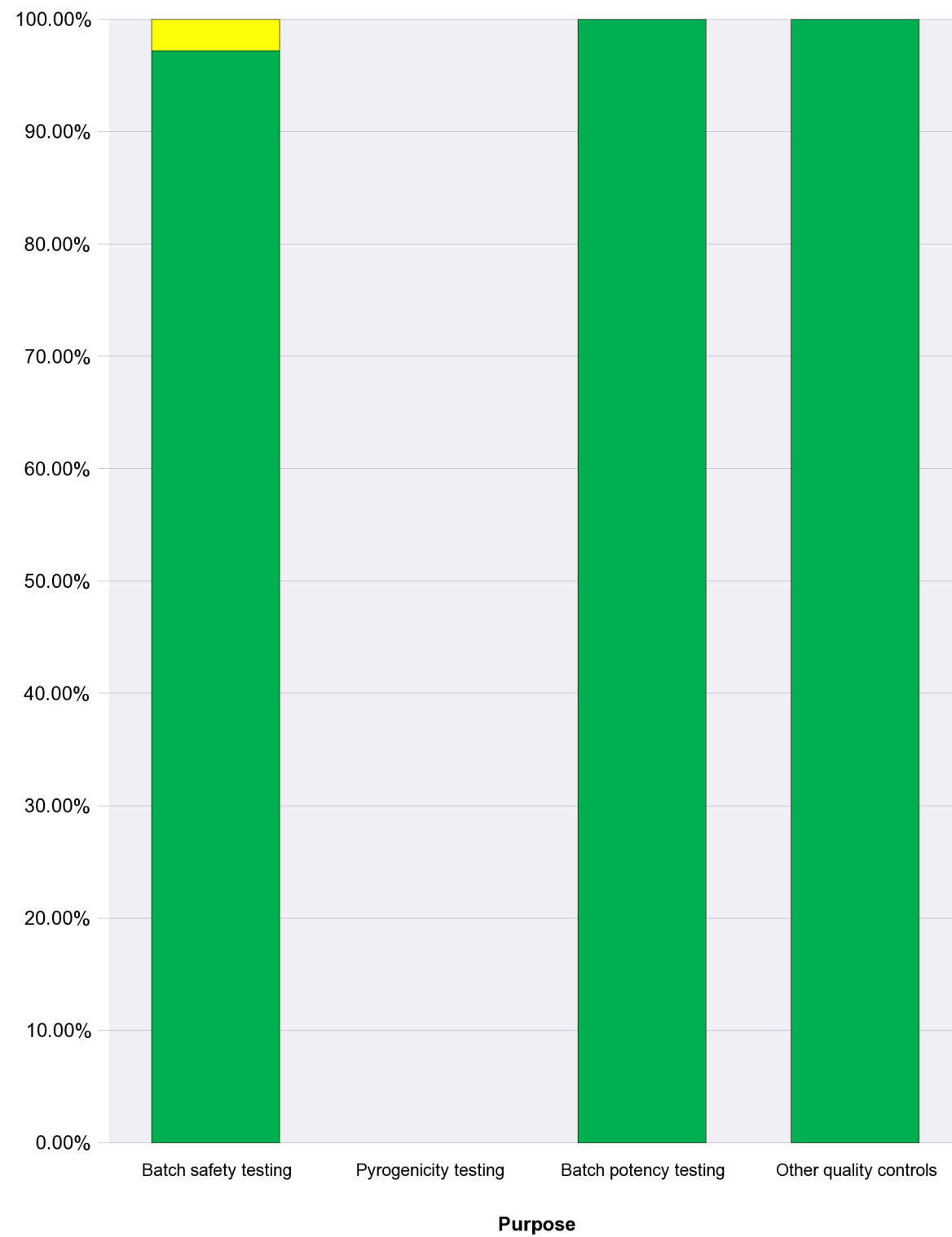
DP.E.1. Purposes and severity

Quality control purposes

	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
Batch safety testing		2,434		70	2,504
Pyrogenicity testing					
Batch potency testing		5,601			5,601
Other quality controls		34			34
Total uses		8,069		70	8,139
%		99.14%		0.86%	

Routine production purposes

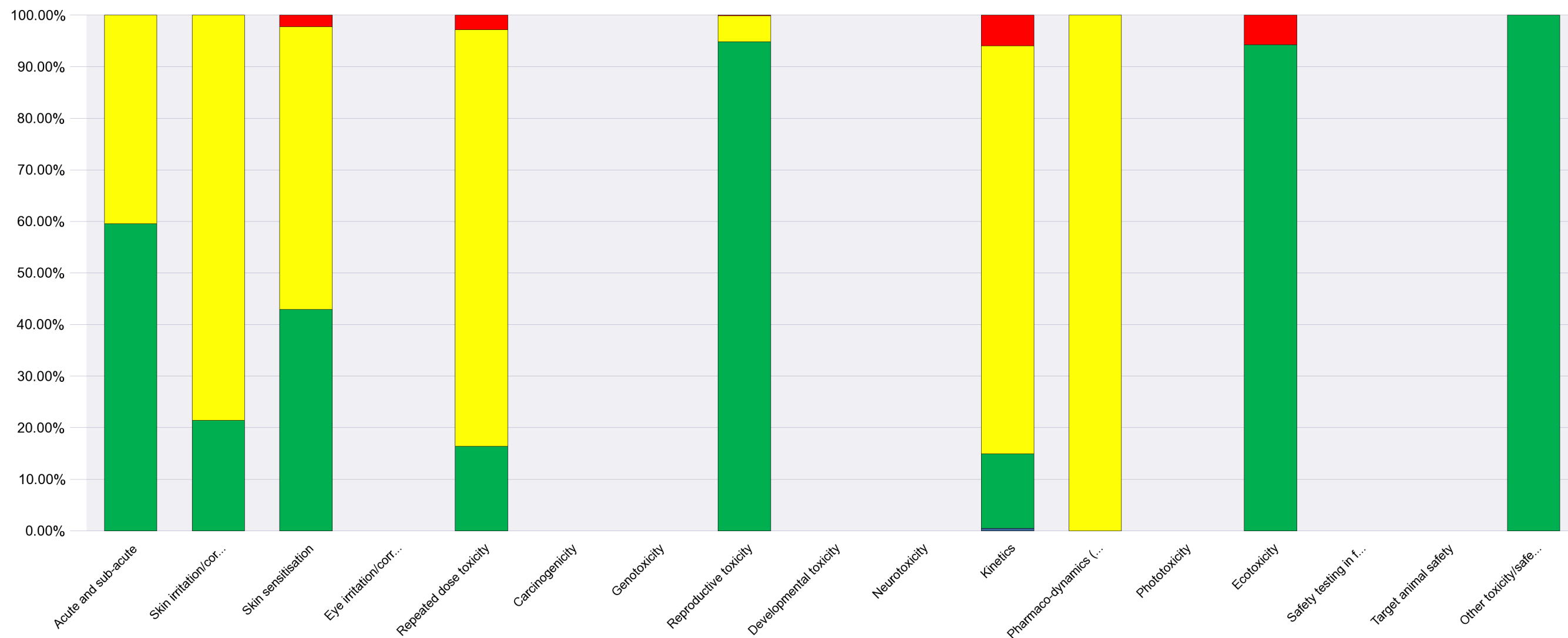
	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
Blood based products			18		18
Other product types		47	199	210	456
Total uses		47	217	210	474
%		9.92%	45.78%	44.30%	



DP.E.1. Purposes and severity

Toxicity and other safety testing by test type purposes

	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
Acute and sub-acute		2,364		1,604	3,968
Skin irritation/corrosion		6		22	28
Skin sensitisation		76		97	177
Eye irritation/corrosion				4	
Repeated dose toxicity		361		1,781	2,205
Carcinogenicity					
Genotoxicity					
Reproductive toxicity		887		47	935
Developmental toxicity				1	
Neurotoxicity					
Kinetics	4	118		647	818
Pharmaco-dynamics (incl safety pharmacology)				26	26
Phototoxicity					
Ecotoxicity		1,980			2,100
Safety testing in food and feed area					
Target animal safety					
Other toxicity/safety testing		51			51
Total uses	4	5,843	4,224	237	10,308
%	0.04%	56.68%	40.98%	2.30%	



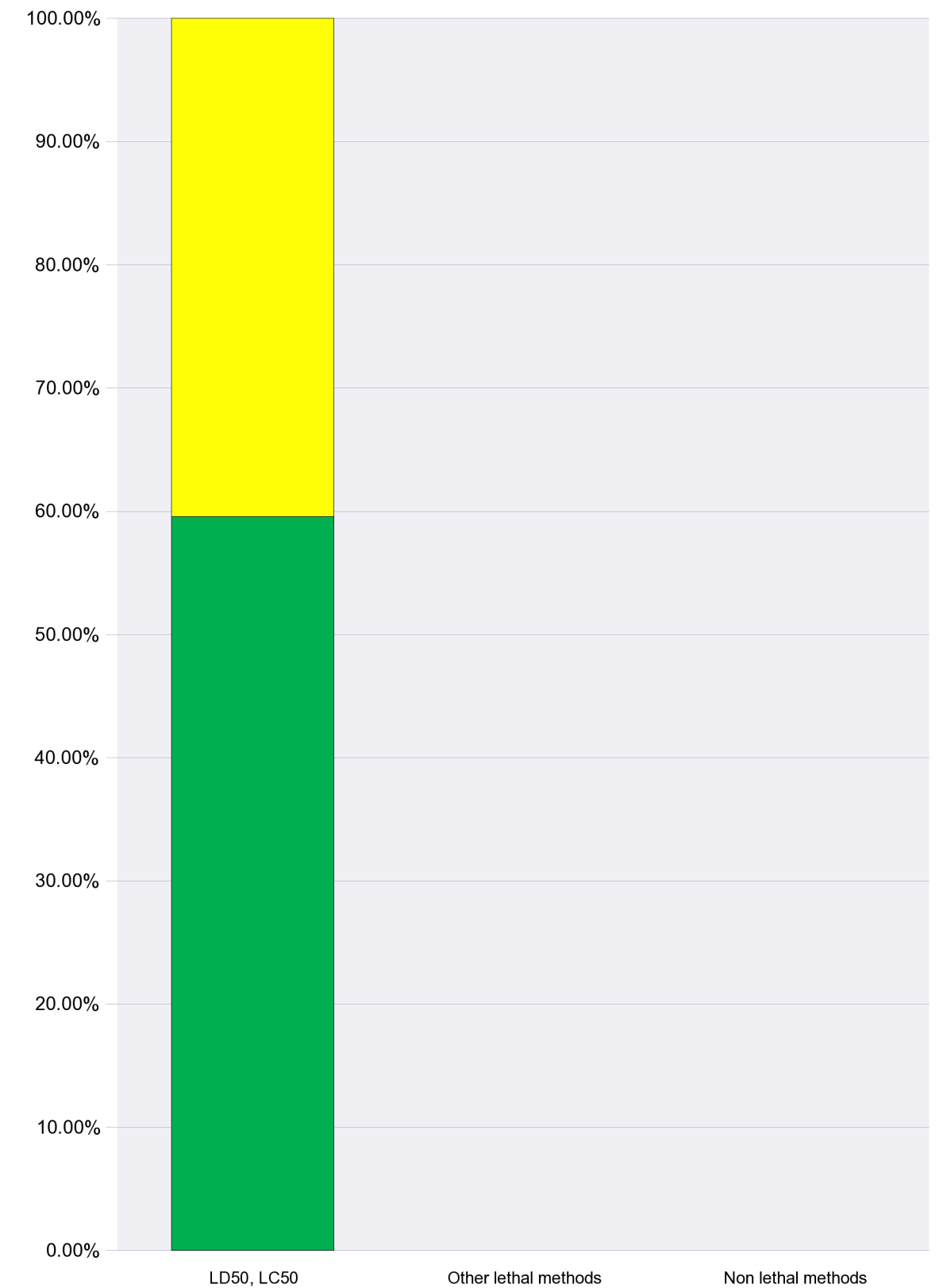
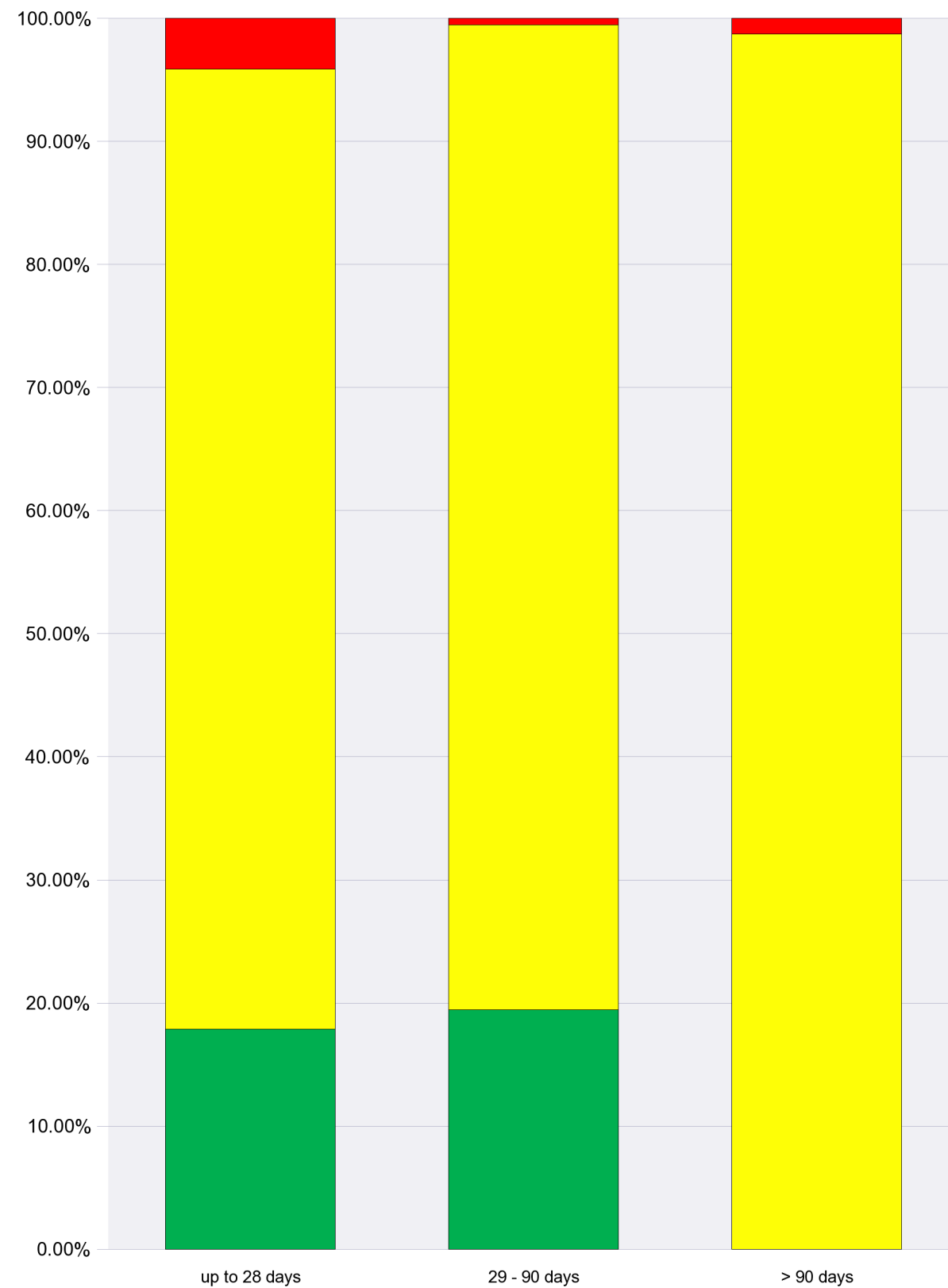
DP.E.1. Purposes and severity

Repeated dose toxicity purposes

	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
up to 28 days		247	1,078	57	1,382
29 - 90 days		114	469	3	586
> 90 days			234	3	237
Total uses		361	1,781	63	2,205
%		16.37%	80.77%	2.86%	

Acute and sub-acute toxicity testing methods

	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
LD50, LC50		2,364	1,604		3,968
Other lethal methods					
Non lethal methods					
Total uses		2,364	1,604		3,968
%		59.58%	40.42%		



DP.E.1. Purposes and severity

Ecotoxicity purposes

	Non-recovery	Mild [up to and including]	Moderate	Severe	Total uses
Acute toxicity				120	120
Chronic toxicity		1,800			1,800
Reproductive ecotoxicity					
Endocrine activity					
Bioaccumulation		180			180
Other ecotoxicity					
Total uses		1,980		120	2,100
%		94.29%		5.71%	

