Annex IV-1

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

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Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
VC	2003	AOO	0	1	0.07	0.97	NA	NA	NA	NA
				2	0.07	1.04				
				3	0.06	0.91				
				4	0.07	1.08				
				Mean	**0.07**	**1.00**				
HCA	2003	AOO	3.125	5	0.08	1.12	5.52	6.25	12.90	15.18
				6	0.07	0.99				
				7	0.10	1.54				
				8	0.07	1.02				
				Mean	**0.08**	**1.17**				
			6.25	9	0.06	0.81				
				10	0.17	2.54				
				11	0.12	1.73				
				12	0.09	1.33				
				Mean	**0.11**	**1.60**				
			12.5	13	0.14	2.08				
				14	0.12	1.77				
				15	0.15	2.21				
				16	0.10	1.48				
				Mean	**0.13**	**1.88**				
			25	17	0.10	1.45				
				18	0.14	2.13				
				19	0.26	3.83				
				20	0.16	2.33				
				Mean	**0.17**	**2.44**				
VC	2003	AOO	0	1	0.09	0.72	NA	NA	NA	NA
				2	0.14	1.17				
				3	0.13	1.11				
				4	0.12	1.01				
				Mean	**0.12**	**1.00**				
HCA	2003	AOO	12.5	5	0.19	1.55	11.58	12.65	17.20	18.75
				6	0.25	2.04				
				7	0.24	2.00				
				8	0.09	0.75				
				Mean	**0.19**	**1.59**				
			25	9	0.21	1.74				
				10	0.35	2.88				
				11	0.32	2.69				
				12	0.28	2.33				
				Mean	**0.29**	**2.41**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
HCA (continued)	2003	AOO	50	13	0.33	2.75				
				14	0.39	3.24				
				15	0.48	4.01				
				16	0.55	4.58				
				Mean	**0.44**	**3.64**				
VC	2004	AOO	0	1	0.07	0.68	NA	NA	NA	NA
				2	0.08	0.77				
				3	0.17	1.57				
				4	0.10	0.98				
				Mean	**0.11**	**1.00**				
Eugenol	2004a	AOO	1	5	0.27	2.50	5.94	6.95	10.10	11.19
				6	0.12	1.09				
				7	0.18	1.73				
				8	0.18	1.71				
				Mean	**0.19**	**1.76**				
			6	9	0.21	1.94				
				10	0.21	1.93				
				11	0.06	0.60				
				12	0.17	1.56				
				Mean	**0.16**	**1.51**				
			15	13	0.27	2.51				
				14	0.17	1.58				
				15	0.27	2.53				
				16	0.30	2.82				
				Mean	**0.25**	**2.36**				
			30	17	0.47	4.44				
				18	0.29	2.69				
				19	0.39	3.67				
				20	0.27	2.52				
				Mean	**0.36**	**3.33**				
DHEA	2004a	AOO	1	21	0.19	1.77	0.70*	0.85*	14.10	18.43
				26	0.19	1.82				
				27	0.19	1.80				
				28	0.15	1.43				
				Mean	**0.18**	**1.71**				
			6	29	0.29	2.68				
				30	0.10	0.93				
				31	0.14	1.35				
				32	0.20	1.91				
				Mean	**0.18**	**1.71**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
DHEA (continued)	2004a	AOO	30	33	0.12	1.14				
				34	0.32	2.98				
				35	0.31	2.90				
				36	0.22	2.06				
				Mean	**0.24**	**2.27**				
DHEB	2004a	AOO	1	37	0.19	1.75	0.60	13.95	0.78	0.83
				38	0.14	1.30				
				39	0.26	2.47				
				40	0.39	3.65				
				Mean	**0.24**	**2.29**				
			6	41	0.42	3.95				
				42	0.56	5.28				
				43	0.50	4.73				
				44	0.66	6.23				
				Mean	**0.54**	**5.05**				
			20	45	0.75	7.03				
				46	0.73	6.88				
				47	0.74	6.95				
				48	0.87	8.18				
				Mean	**0.77**	**7.26**				
p-Benzoquinone	2004b, 2007b	AOO	0	1	0.09	0.95	0.15	0.15	0.17	0.17
				2	0.08	0.79				
				3	0.09	0.95				
				4	0.13	1.31				
				Mean	**0.10**	**1.00**				
			0.25	5	0.31	3.14				
				6	0.40	4.08				
				7	0.21	2.11				
				8	0.40	4.08				
				Mean	**0.33**	**3.35**				
			0.5	9	0.38	3.90				
				10	0.68	6.93				
				11	0.89	9.09				
				12	0.32	3.21				
				Mean	**0.57**	**5.78**				
			1	13	0.74	7.58				
				14	0.72	7.28				
				15	0.60	6.09				
				16	0.67	6.84				
				Mean	**0.68**	**6.94**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
VC	2005	AOO	0	1	0.08	1.20	NA	NA	NA	NA
				2	0.10	1.45				
				3	0.04	0.61				
				4	0.05	0.73				
				Mean	**0.07**	**1.00**				
Isoeugenol	2005	AOO	10	5	0.97	13.93	NC	NC	NC	NC
				6	0.37	5.32				
				7	0.41	5.88				
				8	0.58	8.33				
				Mean	**0.58**	**8.36**				
p-Phenylenediamine	2005, 2007b	AOO	10	6	1.12	16.10	NC	NC	NC	NC
				7	1.03	14.90				
				8	1.02	14.70				
				9	0.92	13.20				
				Mean	**1.02**	**14.70**				
trans-Cinnamaldehyde	2005	AOO	10	13	0.55	7.93	NC	NC	NC	NC
				14	0.20	2.87				
				15	0.41	5.86				
				16	0.47	6.78				
				Mean	**0.41**	**5.86**				
Glutaraldehyde	2005, 2007b	AOO	0	1	0.08	1.20	NC	NC	NC	NC
				2	0.10	1.45				
				3	0.04	0.61				
				4	0.05	0.73				
				Mean	**0.07**	**1.00**				
			10	6	1.12	16.10				
				7	1.15	16.30				
				8	1.03	14.80				
				9	1.03	14.80				
				Mean	**1.08**	**15.50**				
Citral	2005, 2007b	AOO	0	1	0.08	1.20	NC	NC	NC	NC
				2	0.10	1.45				
				3	0.04	0.61				
				4	0.05	0.73				
				Mean	**0.07**	**1.00**				
			10	6	0.24	3.45				
				7	0.12	1.76				
				8	0.09	1.29				
				9	0.06	0.85				
				Mean	**0.13**	**1.84**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Citral	2005, 2007b	AOO	0	1	0.07	1.12	NC	NC	NC	NC
				2	0.06	0.87				
				3	0.08	1.26				
				4	0.05	0.76				
				Mean	**0.07**	**1.00**				
			50	6	1.08	16.40				
				7	0.99	15.00				
				8	1.32	20.10				
				9	0.91	13.90				
				Mean	**1.08**	**16.40**				
VC	2005	AOO	0	1	0.10	1.34	NA	NA	NA	NA
				2	0.11	1.40				
				3	0.04	0.57				
				4	0.05	0.69				
				Mean	**0.08**	**1.00**				
Isoeugenol	2005	AOO	10	5	0.94	12.23	NC	NC	NC	NC
				6	0.32	4.11				
				7	0.38	4.93				
				8	0.58	7.52				
				Mean	**0.55**	**7.20**				
Eugenol	2005	AOO	10	25	0.36	4.65	NC	NC	NC	NC
				26	0.15	1.89				
				27	0.14	1.84				
				28	0.33	4.33				
				Mean	**0.24**	**3.18**				
Isopropyl myristate	2005, 2007b	AOO	10	6	0.05	0.70	NC	NC	NC	NC
				7	0.07	0.95				
				8	0.13	1.71				
				9	0.07	0.94				
				Mean	**0.08**	**1.08**				
Isopropyl myristate	2005, 2007b	AOO	0	1	0.07	0.95	NC	NC	NC	NC
				2	0.06	0.91				
				3	0.08	1.11				
				4	0.07	1.03				
				Mean	**0.07**	**1.00**				
			50	6	0.22	3.15				
				7	0.41	6.03				
				8	0.24	3.55				
				9	0.28	4.02				
				Mean	**0.29**	**4.19**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Propylene glycol	2005	AOO	10	33	0.07	0.85	NC	NC	NC	NC
				34	0.15	1.91				
				35	0.07	0.85				
				36	0.09	1.20				
				Mean	**0.09**	**1.20**				
Hexane	2005	AOO	10	37	0.04	0.54	NC	NC	NC	NC
				38	0.09	1.12				
				39	0.05	0.61				
				40	0.05	0.67				
				Mean	**0.06**	**0.73**				
Diphenylcyclopropenone	2005, 2007b	AOO	10	41	0.52	6.84	NC	NC	NC	NC
				42	0.54	7.03				
				43	0.69	9.04				
				44	1.11	14.44				
				Mean	**0.72**	**9.34**				
VC	2005	AOO	0	1	0.09	0.94	NA	NA	NA	NA
				2	0.08	0.88				
				3	0.11	1.15				
				4	0.10	1.04				
				Mean	**0.10**	**1.00**				
DNCB	2005	AOO	2	5	1.73	18.15	NC	NC	NC	NC
				6	1.67	17.56				
				7	1.74	18.28				
				8	1.66	17.45				
				Mean	**1.70**	**17.86**				
p-Phenylenediamine	2005, 2007b	AOO	2	6	0.96	10.10	NC	NC	NC	NC
				7	1.26	13.20				
				8	1.03	10.90				
				9	1.20	12.60				
				Mean	**1.12**	**11.70**				
Glutaraldehyde	2005, 2007b	AOO	2	6	1.45	15.20	NC	NC	NC	NC
				7	1.33	14.00				
				8	1.34	14.10				
				9	1.41	14.80				
				Mean	**1.38**	**14.60**				
Diphenylcyclopropenone	2005, 2007b	AOO	2	6	1.85	19.50	NC	NC	NC	NC
				7	1.78	18.70				
				8	1.67	17.60				
				9	1.95	20.60				
				Mean	**1.81**	**19.10**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
VC	2005	AOO	0	1	0.07	1.12	NA	NA	NA	NA
				2	0.06	0.87				
				3	0.08	1.26				
				4	0.05	0.76				
				Mean	**0.07**	**1.00**				
HCA	2005	AOO	50	5	0.34	5.19	NC	NC	NC	NC
				6	0.37	5.57				
				7	0.45	6.91				
				8	0.39	5.95				
				Mean	**0.39**	**5.90**				
Propylene glycol	2005	AOO	50	9	0.10	1.53	NC	NC	NC	NC
				10	0.16	2.42				
				11	0.07	1.07				
				12	0.08	1.25				
				Mean	**0.10**	**1.57**				
Hexane	2005	AOO	50	13	0.12	1.86	NC	NC	NC	NC
				14	0.10	1.51				
				15	0.15	2.32				
				16	0.12	1.88				
				Mean	**0.12**	**1.89**				
Eugenol	2005	AOO	50	33	0.71	10.31	NC	NC	NC	NC
				34	0.73	10.67				
				35	1.07	15.63				
				36	0.86	12.50				
				Mean	**0.84**	**12.28**				
VC	2006	AOO	0	1	0.54	1.16	NA	NA	NA	NA
				2	0.43	0.92				
				3	0.37	0.79				
				4	0.53	1.13				
				Mean	**0.47**	**1.00**				
HCA	2006	AOO	2	5	0.49	1.04	15.87	18.67	27.10	29.86
				6	0.40	0.86				
				7	0.44	0.95				
				8	0.37	0.79				
				Mean	**0.43**	**0.91**				
			10	9	0.75	1.60				
				10	0.64	1.37				
				11	0.50	1.06				
				12	0.53	1.14				
				Mean	**0.60**	**1.29**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
HCA (continued)	2006	AOO	50	13	1.52	3.25				
				14	1.18	2.53				
				15	1.36	2.91				
				16	1.02	2.19				
				Mean	**1.27**	**2.72**				
Eugenol	2006	AOO	2	17	0.27	0.57	11.01	13.52	21.10	23.58
				18	0.25	0.52				
				19	0.30	0.65				
				20	0.24	0.52				
				Mean	**0.26**	**0.56**				
			10	21	0.80	1.72				
				22	0.68	1.45				
				23	0.50	1.06				
				24	0.76	1.63				
				Mean	**0.68**	**1.46**				
			50	25	1.34	2.87				
				26	1.48	3.17				
				27	1.37	2.93				
				28	1.52	3.26				
				Mean	**1.43**	**3.05**				
Isoeugenol	2006, 2007b	AOO	0	1	0.54	1.16	6.26	6.70	8.00	8.43
				2	0.43	0.92				
				3	0.37	0.79				
				4	0.53	1.13				
				Mean	**0.47**	**1.00**				
			0.4	6	0.12	0.25				
				7	0.18	0.39				
				8	0.19	0.41				
				9	0.22	0.46				
				Mean	**0.18**	**0.38**				
			2	11	0.38	0.81				
				12	0.21	0.44				
				13	0.18	0.38				
				14	0.22	0.46				
				Mean	**0.24**	**0.52**				
			10	16	1.31	2.80				
				17	1.22	2.62				
				18	0.83	1.77				
				19	1.05	2.25				
				Mean	**1.10**	**2.36**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
HCA	2006	AOO	0	1	0.39	1.66	18.06	19.55	24.00	25.52
				2	0.27	1.15				
				3	0.17	0.71				
				4	0.11	0.48				
				Mean	**0.24**	**1.00**				
			2	5	0.28	1.18				
				6	0.13	0.56				
				7	0.16	0.69				
				8	0.18	0.74				
				Mean	**0.19**	**0.79**				
			10	9	0.19	0.81				
				10	0.21	0.87				
				11	0.25	1.07				
				12	0.26	1.08				
				Mean	**0.23**	**0.96**				
			50	13	1.02	4.32				
				14	0.64	2.71				
				15	0.90	3.81				
				16	0.88	3.72				
				Mean	**0.86**	**3.64**				
Propylene glycol	2006, 2007b	AOO	0	1	0.39	1.54	NC	NC	NC	NC
				2	0.27	1.21				
				3	0.17	0.74				
				4	0.11	0.51				
				Mean	**0.24**	**1.00**				
			2	6	0.32	1.42				
				7	0.22	0.96				
				8	0.15	0.67				
				9	0.13	0.57				
				Mean	**0.20**	**0.91**				
			10	11	0.14	0.60				
				12	0.11	0.46				
				13	0.15	0.65				
				14	0.42	1.75				
				Mean	**0.21**	**0.87**				
			50	16	0.14	0.63				
				17	0.17	0.74				
				18	0.15	0.66				
				19	0.18	0.78				
				Mean	**0.16**	**0.70**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
2-Hydroxypropyl methacrylate	2007b	AOO	0	1	0.11	1.08	NC	NC	NC	NC
				2	0.09	0.87				
				3	0.10	0.90				
				4	0.12	1.15				
				Mean	**0.11**	**1.00**				
			50	6	0.10	0.96				
				7	0.14	1.35				
				8	0.14	1.32				
				9	0.09	0.88				
				Mean	**0.12**	**1.13**				
Aniline	2007b	AOO	0	1	0.08	0.86	50.00	NC	NC	NC
				2	0.09	0.90				
				3	0.09	0.92				
				4	0.13	1.33				
				Mean	**0.10**	**1.00**				
			12.5	6	0.10	1.05				
				7	0.12	1.26				
				8	0.15	1.57				
				9	0.15	1.63				
				Mean	**0.13**	**1.38**				
			25	11	0.11	1.14				
				12	0.13	1.35				
				13	0.14	1.48				
				14	0.15	1.58				
				Mean	**0.13**	**1.39**				
			50	16	0.16	1.67				
				17	0.11	1.17				
				18	0.10	1.04				
				19	0.20	2.11				
				Mean	**0.14**	**1.50**				
p-Chloroaniline	2007b	AOO	0	1	0.08	0.86	10.79	11.03	15.00	16.20
				2	0.09	0.90				
				3	0.09	0.92				
				4	0.13	1.33				
				Mean	**0.10**	**1.00**				
			12.5	6	0.15	1.60				
				7	0.14	1.47				
				8	0.15	1.59				
				9	0.20	2.07				
				Mean	**0.16**	**1.68**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
p-Chloroaniline (continued)	2007b	AOO	25	11	0.21	2.23				
				12	0.18	1.91				
				13	0.29	3.05				
				14	0.28	2.92				
				Mean	**0.24**	**2.53**				
Cinnamic aldehyde	2007b	AOO	0	1	0.12	0.78	6.81	4.81	8.56	9.07
				2	0.18	1.13				
				3	0.17	1.08				
				4	0.16	1.01				
				Mean	**0.16**	**1.00**				
			12.5	6	0.48	3.09				
				7	0.30	1.94				
				8	0.47	3.00				
				9	0.34	2.20				
				Mean	**0.40**	**2.56**				
			25	11	0.61	3.87				
				12	0.63	3.99				
				13	0.52	3.30				
				14	0.62	3.94				
				Mean	**0.59**	**3.77**				
			50	16	0.58	3.71				
				17	0.53	3.38				
				18	0.72	4.60				
				19	0.66	4.18				
				Mean	0.62	3.97				
Cyclamen aldehyde	2007b	AOO	0	1	0.13	0.86	69.48	75.97	93.90	NC
				2	0.17	1.20				
				3	0.13	0.90				
				4	0.15	1.04				
				Mean	**0.15**	**1.00**				
			25	6	0.13	0.91				
				7	0.13	0.90				
				8	0.20	1.39				
				9	0.13	0.86				
				Mean	**0.15**	**1.02**				
			50	11	0.16	1.11				
				12	0.20	1.35				
				13	0.15	1.04				
				14	0.19	1.32				
				Mean	**0.17**	**1.20**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Cyclamen aldehyde (continued)	2007b	AOO	100	16	0.24	1.65				
				17	0.20	1.35				
				18	0.39	2.69				
				19	0.32	2.20				
				Mean	**0.29**	**1.97**				
Diethyl phthalate	2007b	AOO	0	1	0.11	1.08	NC	NC	NC	NC
				2	0.09	0.87				
				3	0.10	0.90				
				4	0.12	1.15				
				Mean	**0.11**	**1.00**				
			50	6	0.09	0.87				
				7	0.07	0.71				
				8	0.08	0.77				
				9	0.12	1.16				
				Mean	**0.09**	**0.88**				
Dimethylisophthalate	2007b	AOO	0	1	0.11	1.08	NC	NC	NC	NC
				2	0.09	0.87				
				3	0.10	0.90				
				4	0.12	1.15				
				Mean	**0.11**	**1.00**				
			50	6	0.13	1.23				
				7	0.11	1.02				
				8	0.15	1.45				
				9	0.14	1.36				
				Mean	**0.13**	**1.26**				
Diphenylcyclopropenone	2007b	AOO	0	1	0.07	0.95	NC	NC	NC	NC
				2	0.06	0.91				
				3	0.08	1.11				
				4	0.07	1.03				
				Mean	**0.07**	**1.00**				
			10	6	0.93	13.50				
				7	0.82	11.90				
				8	0.50	7.23				
				9	0.95	13.80				
				Mean	**0.80**	**11.61**				
DNCB	2007b	AOO	0	1	0.44	1.76	0.07	0.07	0.10	0.11
				2	0.27	1.10				
				3	0.17	0.69				
				4	0.11	0.45				
				Mean	**0.25**	**1.00**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
DNCB (continued)	2007b	AOO	0.08	6	0.35	1.40				
				7	0.46	1.84				
				8	0.30	1.23				
				9	0.56	2.24				
				Mean	**0.42**	**1.68**				
			0.4	11	1.21	4.89				
				12	1.33	5.38				
				13	1.67	6.73				
				14	1.44	5.81				
				Mean	**1.41**	**5.70**				
			2	16	1.87	7.53				
				17	1.50	6.05				
				18	1.63	6.60				
				19	1.78	7.17				
				Mean	**1.69**	**6.84**				
VC	2007b	AOO	0	1	0.03	0.52	NA	NA	NA	NA
				2	0.07	1.53				
				3	0.04	0.74				
				4	0.06	1.21				
				Mean	**0.05**	**1.00**				
Eugenol	2007b	AOO	6.25	6	0.15	3.05	1.02	1.06	1.19	1.24
				7	0.35	7.48				
				8	0.25	5.26				
				9	0.42	8.85				
				Mean	**0.29**	**6.16**				
			12.5	11	0.26	5.52				
				12	0.28	5.89				
				13	0.33	6.87				
				14	0.64	13.48				
				Mean	**0.38**	**7.94**				
			25	16	0.76	16.05				
				17	0.86	18.09				
				18	0.59	12.35				
				19	0.67	14.14				
				Mean	**0.72**	**15.15**				
			50	21	0.81	17.12				
				22	0.76	15.99				
				23	0.82	17.35				
				24	0.96	20.29				
				Mean	**0.84**	**17.69**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Glycerol	2007b	NA	0	1	0.05	0.85	NC	NC	NC	NC
				2	0.06	0.94				
				3	0.07	1.11				
				4	0.07	1.10				
				Mean	**0.06**	**1.00**				
			10	6	0.08	1.38				
				7	0.07	1.17				
				8	0.08	1.39				
				9	0.07	1.23				
				Mean	**0.08**	**1.29**				
HCA	2007b	AOO	0	1	0.12	0.78	13.49	15.48	21.40	23.41
				2	0.18	1.13				
				3	0.17	1.08				
				4	0.16	1.01				
				Mean	**0.16**	**1.00**				
			12.5	6	0.22	1.42				
				7	0.28	1.80				
				8	0.28	1.76				
				9	0.13	0.81				
				Mean	**0.23**	**1.45**				
			25	11	0.25	1.57				
				12	0.38	2.44				
				13	0.36	2.29				
				14	0.32	2.01				
				Mean	**0.33**	**2.08**				
			50	16	0.37	2.34				
				17	0.43	2.71				
				18	0.52	3.30				
				19	0.59	3.73				
				Mean	**0.47**	**3.02**				
Hydroxycitronellal	2007b	AOO	0	1	0.13	0.86	NC	NC	NC	NC
				2	0.17	1.20				
				3	0.13	0.90				
				4	0.15	1.04				
				Mean	**0.15**	**1.00**				
			25	6	0.18	1.23				
				7	0.20	1.39				
				8	0.16	1.12				
				9	0.15	1.03				
				Mean	**0.17**	**1.19**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Hydroxycitronellal (continued)	2007b	AOO	50	11	0.20	1.36				
				12	0.16	1.10				
				13	0.13	0.92				
				14	0.16	1.10				
				Mean	**0.16**	**1.12**				
			100	16	0.20	1.38				
				17	0.18	1.25				
				18	0.23	1.57				
				19	0.17	1.17				
				Mean	**0.20**	**1.34**				
Isopropanol	2007b	AOO	0	1	0.13	0.85	NC	NC	NC	NC
				2	0.22	1.38				
				3	0.13	0.80				
				4	0.15	0.97				
				Mean	**0.16**	**1.00**				
			25	6	0.10	0.65				
				7	0.16	1.03				
				8	0.09	0.58				
				9	0.12	0.73				
				Mean	**0.12**	**0.75**				
			50	11	0.22	1.37				
				12	0.11	0.68				
				13	0.18	1.15				
				14	0.07	0.45				
				Mean	**0.15**	**0.92**				
			100	16	0.12	0.79				
				17	0.08	0.53				
				18	0.09	0.59				
				19	0.08	0.48				
				Mean	**0.09**	**0.60**				
m-Aminophenol	2007b	AOO	0	1	0.08	0.86	2.66	2.99	4.20	4.70
				2	0.09	0.90				
				3	0.09	0.92				
				4	0.13	1.33				
				Mean	**0.10**	**1.00**				
			6.25	6	0.28	3.00				
				7	0.18	1.86				
				8	0.21	2.22				
				9	0.18	1.90				
				Mean	**0.21**	**2.25**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
m-Aminophenol (continued)	2007b	AOO	12.5	11	0.15	1.61				
				12	0.47	4.97				
				13	0.21	2.17				
				14	0.25	2.67				
				Mean	**0.27**	**2.86**				
			25	16	0.27	2.81				
				17	0.35	3.71				
				18	0.25	2.67				
				19	NA	NA				
				Mean	**0.29**	**3.06**				
2-Mercaptobenzothiazole	2007b	DMF	0	1	0.17	1.11	10.08*	12.10*	NC	NC
				2	0.17	1.09				
				3	0.16	1.01				
				4	0.12	0.78				
				Mean	**0.15**	**1.00**				
			12.5	6	0.22	1.45				
				7	0.28	1.81				
				8	0.34	2.22				
				9	0.15	0.98				
				Mean	**0.25**	**1.62**				
			25	11	0.20	1.27				
				12	0.17	1.12				
				13	0.25	1.64				
				14	0.22	1.40				
				Mean	**0.21**	**1.36**				
			50	16	0.19	1.21				
				17	0.12	0.77				
				18	0.26	1.70				
				19	0.35	2.29				
				Mean	**0.23**	**1.49**				
Isoeugenol	2007a	AOO	0	1	0.15	0.83	2.92	3.62	5.92	6.69
				2	0.22	1.27				
				3	0.15	0.84				
				4	0.19	1.06				
				Mean	**0.18**	**1.00**				
			3	5	0.49	2.79				
				6	0.32	1.82				
				7	0.13	0.73				
				8	0.13	0.74				
				Mean	**0.27**	**1.52**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Isoeugenol (continued)	2007a	AOO	10	9	0.51	2.90				
				10	0.60	3.40				
				11	0.35	2.01				
				12	0.25	1.40				
				Mean	**0.43**	**2.43**				
			30	13	0.99	5.64				
				14	1.04	5.90				
				15	1.06	6.02				
				16	1.64	9.35				
				Mean	**1.18**	**6.73**				
Eugenol	2007a	AOO	0	1	0.15	0.83	10.68	11.18	13.70	14.56
				2	0.22	1.27				
				3	0.15	0.84				
				4	0.19	1.06				
				Mean	**0.18**	**1.00**				
			3	41	0.20	1.12				
				42	0.11	0.64				
				43	0.12	0.66				
				44	0.10	0.57				
				Mean	**0.13**	**0.75**				
			10	45	0.20	1.12				
				46	0.34	1.95				
				47	0.28	1.60				
				48	0.20	1.16				
				Mean	**0.26**	**1.46**				
			30	49	0.53	3.00				
				50	0.45	2.56				
				51	0.99	5.62				
				52	0.73	4.13				
				Mean	**0.67**	**3.83**				
Dilignol	2007a	AOO	0	1	0.15	0.85	NC	NC	NC	NC
				2	0.23	1.32				
				3	0.14	0.79				
				4	0.18	1.04				
				Mean	**0.18**	**1.00**				
			3	17	0.19	1.08				
				18	0.31	1.75				
				19	0.12	0.68				
				20	0.10	0.56				
				Mean	**0.18**	**1.02**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Dilignol (continued)	2007a	AOO	10	21	0.31	1.75				
				22	0.29	1.63				
				23	0.14	0.81				
				24	0.10	0.56				
				Mean	**0.21**	**1.19**				
			30	25	0.23	1.32				
				26	0.25	1.41				
				27	0.10	0.57				
				28	0.16	0.89				
				Mean	**0.19**	**1.05**				
Dehydrodiisoeugenol	2007a	AOO	0	1	0.16	0.92	1.86	1.89	2.85	3.31
				2	0.23	1.32				
				3	0.14	0.81				
				4	0.17	0.95				
				Mean	**0.18**	**1.00**				
			3	29	0.18	1.03				
				30	0.53	3.03				
				31	0.30	1.71				
				32	0.36	2.03				
				Mean	**0.34**	**1.95**				
			10	33	0.54	3.08				
				34	0.70	3.97				
				35	0.45	2.58				
				36	0.48	2.75				
				Mean	**0.54**	**3.09**				
			30	37	1.00	5.66				
				38	0.69	3.91				
				39	1.08	6.12				
				40	1.03	5.83				
				Mean	**0.95**	**5.38**				
Hexane	2009	AOO	0	1	0.07	0.91	65.79	78.95	NC	NC
				2	0.12	1.51				
				3	0.06	0.71				
				4	0.07	0.87				
				Mean	**0.08**	**1.00**				
			25	6	0.09	1.14				
				7	0.11	1.45				
				8	0.10	1.22				
				9	0.12	1.54				
				Mean	**0.11**	**1.34**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Hexane (continued)	2009	AOO	0	11	0.05	0.81				
				12	0.09	1.50				
				13	0.05	0.79				
				14	0.06	0.91				
				Mean	**0.06**	**1.00**				
			50	16	0.08	1.36				
				17	0.12	1.91				
				18	0.06	0.99				
				19	0.08	1.26				
				Mean	**0.08**	**1.38**				
			0	21	0.05	0.77				
				22	0.11	1.60				
				23	0.06	0.78				
				24	0.06	0.85				
				Mean	**0.07**	**1.00**				
			100	26	0.11	1.60				
				27	0.13	1.87				
				28	0.14	2.03				
				29	0.11	1.53				
				Mean	**0.12**	**1.76**				
Linalool	2009	AOO	0	1	0.11	0.81	NC	NC	NC	NC
				2	0.19	1.35				
				3	0.12	0.85				
				4	0.14	0.99				
				Mean	**0.14**	**1.00**				
			25	6	0.20	1.48				
				7	0.15	1.13				
				8	0.09	0.69				
				9	0.26	1.86				
				Mean	**0.18**	**1.29**				
			50	11	0.30	2.16				
				12	0.15	1.09				
				13	0.20	1.43				
				14	0.15	1.11				
				Mean	**0.20**	**1.45**				
			100	16	0.19	1.37				
				17	0.21	1.53				
				18	0.12	0.87				
				19	0.13	0.94				
				Mean	**0.16**	**1.18**				
Trimelittic anhydride	2009	AOO	0	1	0.07	0.96	1.76	1.81	1.97	2.03
				2	0.07	0.89				
				3	0.09	1.16				
				Mean	**0.07**	**1.00**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Trimelittic anhydride (continued)	2009	AOO	2.5	4	0.19	2.53				
				5	0.26	3.51				
				6	0.16	2.18				
				Mean	**0.19**	**2.74**				
			5	7	0.30	4.05				
				8	0.47	6.31				
				9	0.39	5.22				
				Mean	**0.30**	**5.19**				
			10	7	0.54	7.22				
				8	0.55	7.33				
				9	0.67	8.99				
				Mean	**0.54**	**7.85**				
VC	2009	DMSO	0	1	0.09	0.60	NA	NA	NA	NA
				2	0.18	1.13				
				3	0.19	1.18				
				4	0.18	1.10				
				Mean	**0.16**	**1.00**				
Cobalt chloride	2009	DMSO	0.5	5	0.30	1.92	0.27	0.32	0.47	0.63
				6	0.25	1.61				
				7	0.31	1.96				
				8	0.37	2.32				
				Mean	**0.31**	**1.95**				
			5	9	0.55	3.47				
				10	0.60	3.76				
				11	0.53	3.35				
				12	0.65	4.13				
				Mean	**0.58**	**3.68**				
VC	2009	DMF	0	1	0.10	0.73	NA	NA	NA	NA
				2	0.16	1.16				
				3	0.12	0.89				
				4	0.17	1.22				
				Mean	**0.14**	**1.00**				
5-Chloro-2-methyl-4-isothiazolin-3-one solution	2009	DMF	0.01	5	0.27	2.02	0.05	0.07	0.11	0.12
				6	0.10	0.77				
				7	0.09	0.66				
				8	0.18	1.33				
				Mean	**0.16**	**1.19**				
			0.5	9	0.93	6.89				
				10	0.66	4.85				
				11	0.52	3.85				
				12	0.51	3.74				
				Mean	**0.65**	**4.83**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Sodium lauryl sulfate	2009	DMF	10	5	0.09	0.68	13.01	13.33	14.30	14.63
				6	0.08	0.61				
				7	0.10	0.73				
				8	0.04	0.27				
				Mean	**0.08**	**0.57**				
			16.7	9	0.39	2.91				
				10	0.43	3.19				
				11	0.41	3.04				
				12	0.19	1.41				
				Mean	**0.36**	**2.64**				
Imidazolidinyl urea	2009	DMF	10	5	0.09	0.70	45.00	49.55	NC	NC
				6	0.12	0.90				
				7	0.10	0.74				
				8	0.08	0.58				
				Mean	**0.10**	**0.73**				
			50	9	0.28	2.07				
				10	0.23	1.73				
				11	0.20	1.46				
				12	0.16	1.16				
				Mean	**0.22**	**1.61**				
VC	2009	DMF	0	1	0.05	0.46	NA	NA	NA	NA
				2	0.14	1.17				
				3	0.10	0.83				
				4	0.18	1.54				
				Mean	**0.12**	**1.00**				
Sulfanlamide	2009	DMF	10	5	0.17	1.45	NC	NC	NC	NC
				6	0.08	0.68				
				7	0.08	0.73				
				8	0.13	1.09				
				Mean	**0.11**	**0.98**				
			50	9	0.20	1.70				
				10	0.11	0.93				
				11	0.12	1.06				
				12	0.16	1.36				
				Mean	**0.15**	**1.26**				
4-Methylaminophenol sulfate	2009	DMF	2	5	0.21	1.84	1.18	1.29	1.67	1.82
				6	0.16	1.34				
				7	0.21	1.77				
				8	0.41	3.50				
				Mean	**0.25**	**2.11**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
4-Methylaminophenol sulfate (continued)	2009	DMF	10	9	0.42	3.58				
				10	0.32	2.73				
				11	0.44	3.80				
				12	0.67	5.80				
				Mean	**0.46**	**3.98**				
Ethlene glycol dimethacrylate	2009	MEK	0	1	0.06	0.80	27.23	31.75	45.31	49.83
				2	0.06	0.83				
				3	0.11	1.42				
				4	0.07	0.94				
				Mean	**0.07**	**1.00**				
			20	5	0.10	1.41				
				6	0.12	1.63				
				7	0.09	1.28				
				8	0.08	1.05				
				Mean	**0.10**	**1.34**				
			100	9	0.18	2.46				
				10	0.23	3.14				
				11	0.29	3.93				
				12	0.21	2.89				
				Mean	**0.23**	**3.11**				
VC	2009	AOO	0	1	0.04	0.41	NA	NA	NA	NA
				2	0.20	1.87				
				3	0.10	0.91				
				4	0.09	0.82				
				Mean	**0.11**	**1.00**				
Cinnamic alcohol	2009	AOO	10	5	0.16	1.46	21.82	24.09	30.91	33.18
				6	0.10	0.94				
				7	0.06	0.54				
				8	0.10	0.99				
				Mean	**0.10**	**0.98**				
			50	9	0.28	2.61				
				10	0.31	2.97				
				11	0.27	2.51				
				12	0.31	2.89				
				Mean	**0.29**	**2.74**				
Ethyl acrylate	2009	AOO	20	5	0.11	1.07	31.34	33.33	39.30	41.29
				6	0.10	0.92				
				7	0.08	0.77				
				8	0.10	0.94				
				Mean	**0.99**	**0.93**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Ethyl acrylate (continued)	2009	AOO	100	9	0.56	5.31				
				10	0.67	6.37				
				11	0.38	3.65				
				12	0.47	4.47				
				Mean	**0.52**	**4.95**				
Diethyl maleate	2009	AOO	5	5	0.06	0.60	7.69	8.05	9.14	9.50
				6	0.06	0.61				
				7	0.11	1.05				
				8	0.08	0.79				
				Mean	**0.08**	**0.76**				
			25	9	0.67	6.32				
				10	0.97	9.14				
				11	0.55	5.23				
				12	0.47	4.40				
				Mean	**0.66**	**6.27**				
VC	2009	AOO	0	1	0.04	0.69	NA	NA	NA	NA
				2	0.09	1.43				
				3	0.06	0.96				
				4	0.06	0.93				
				Mean	**0.06**	**1.00**				
Phenyl benzoate	2009	AOO	10	5	0.06	0.97	NC	NC	NC	NC
				6	0.04	0.70				
				7	0.05	0.81				
				8	0.06	1.04				
				Mean	**0.05**	**0.88**				
			33	9	0.06	1.08				
				10	0.06	0.93				
				11	0.11	1.88				
				12	0.04	0.73				
				Mean	**0.07**	**1.15**				
Salicylic acid	2009	AOO	10	5	0.05	0.77	NC	NC	NC	NC
				6	0.08	1.42				
				7	0.04	0.70				
				8	0.06	1.04				
				Mean	**0.06**	**0.98**				
			25	9	0.06	0.95				
				10	0.08	1.39				
				11	0.09	1.49				
				12	0.07	1.22				
				Mean	**0,08**	**1.26**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Aniline	2009	AOO	0	1	0.07	0.86	67.90	73.60	90.27	95.86
				2	0.09	1.10				
				3	0.09	1.06				
				4	0.08	0.98				
				Mean	**0.08**	**1.00**				
			50	5	0.14	1.74				
				6	0.09	1.14				
				7	0.08	1.00				
				8	0.07	0.86				
				Mean	**0.10**	**1.20**				
			100	9	0.18	2.16				
				10	0.21	2.55				
				11	0.12	1.51				
				12	0.02	0.20				
				Mean	**0.17**	**2.10**				
Linalool	2009	AOO	0	1	0.08	0.75	25.22	27.60	34.72	37.09
				2	0.10	0.96				
				3	0.13	1.21				
				4	0.11	1.08				
				Mean	**0.11**	**1.00**				
			20	5	0.14	1.37				
				6	0.07	0.64				
				7	0.07	0.62				
				8	0.26	2.50				
				Mean	**0.14**	**1.30**				
			100	9	0.35	3.30				
				10	0.52	4.95				
				11	0.63	6.02				
				12	0.46	4.35				
				Mean	**0.49**	**4.70**				
VC	2009	AOO	0	1	0.05	0.70	NA	NA	NA	NA
				2	0.06	0.87				
				3	0.08	1.21				
				4	0.09	1.22				
				Mean	**0.07**	**1.00**				
Hydroxycitronellal	2009	AOO	20	5	0.19	2.69	16.20	17.12	20.55	23.31
				6	0.11	1.63				
				7	0.08	1.08				
				8	0.15	2.13				
				Mean	**0.13**	**1.88**				

Individual Animal Data for the LLNA: BrdU-ELISA - Takeyoshi et al.

Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Hydroxycitronellal (continued)	2009	AOO	100	9	0.26	3.71				
				10	0.32	4.56				
				11	0.39	5.58				
				12	0.37	5.27				
				Mean	**0.33**	**4.78**				
Cyclamen aldehyde	2009	AOO	20	5	0.19	2.78	10.47	11.05	12.97	13.68
				6	0.24	3.40				
				7	0.19	2.66				
				8	0.14	2.01				
				Mean	**0.19**	**2.71**				
			100	9	0.41	5.81				
				10	0.41	5.93				
				11	0.37	5.34				
				12	0.40	5.78				
				Mean	**0.40**	**5.72**				
Phenyl benzoate	2009	DMF	0	1	0.12	1.17	14.14	16.95	25.39	28.20
				2	0.09	0.87				
				3	0.04	0.38				
				4	0.16	1.57				
				Mean	**0.10**	**1.00**				
			13.3	5	0.14	1.30				
				6	0.10	1.01				
				7	0.19	1.82				
				8	0.18	1.75				
				Mean	**0,15**	**1.47**				
			66.7	9	0.45	4.34				
				10	0.47	4.54				
				11	0.23	2.19				
				12	0.25	2.42				
				Mean	**0.35**	**3.37**				

Abbreviations: ABS = absorbance; An. No. = animal number; AOO = acetone: olive oil (4:1); Conc. = concentration; DHEA = 2,2'-dihydroxyl-3,3'-dimethoxy-5,5'-diallyl-biphenyl; DHEB = 4,5'-diallyl-2'-hydroxy-2,3'-dimethoxyphenyl ether; DMF = *N*,*N*-dimethylformamide; DMSO = dimethyl sulfoxide; DNCB = 2,4-dinitrochlorobenzene; EC = estimated concentration needed to produce a stimulation index of 1.5 (EC1.5), 1.6 (EC1.6); 1.9 (EC1.9), or 2 (EC2); HCA = hexyl cinnamic aldehyde; LLNA: BrdU-ELISA = murine local lymph node assay with enzyme-linked immunosorbent assay detection of bromodeoxyuridine; NA = not applicable; NC = not calculated because SI was not high enough to calculate EC1.5, EC1,6, EC1.9, or EC2 or because only one dose was tested; Ref. = year of Takeyoshi et al. reference for the data; SI = stimulation index; VC = vehicle control; Veh. = vehicle.

[1] mean of 3 replicates.

* EC values were calculated by linear interpolation using SI =1 and concentration = 0 as the lowest point because the dose-response was nonmonotonic.