Annex V

Additional LLNA: BrdU-ELISA Test Results Submitted in December 2009

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Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Chlorobenzene	2009	AOO	0	1	0.04	0.36	18.61	21.39	29.72	32.50
				2	0.12	1.12				
				3	0.14	1.37				
				4	0.12	1.15				
				Mean	**0.10**	**1.00**				
			30	5	0.16	1.54				
				6	0.21	2.00				
				7	0.15	1.47				
				8	0.27	2.64				
				Mean	**0.20**	**1.91**				
			100	9	0.43	4.16				
				10	0.44	4.29				
				11	0.58	5.60				
				12	0.38	3.68				
				Mean	**0.46**	**4.43**				
Imidazolidinyl urea	2009	DMSO	0	1	0.10	0.70	43.95	47.98	60.08	64.11
				2	0.17	1.13				
				3	0.22	1.43				
				4	0.11	0.74				
				Mean	**0.15**	**1.00**				
			50	5	0.21	1.40				
				6	0.25	1.67				
				7	0.28	1.87				
				8	0.25	1.68				
				Mean	**0.25**	**1.65**				
			75	9	0.35	2.34				
				10	0.29	1.95				
				11	0.37	2.49				
				12	0.34	2.31				
				Mean	**0.34**	**2.27**				
VC	2009	DMSO	0	1	0.12	0.51	NA	NA	NA	NA
				2	0.57	2.36				
				3	0.12	0.49				
				4	0.16	0.65				
				Mean	**0.24**	**1.00**				
Nickel chloride	2009	DMSO	1	5	0.06	0.25	NC	NC	NC	NC
				6	0.32	1.30				
				7	0.26	1.09				
				8	0.22	0.91				
				Mean	**0.22**	**0.89**				

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Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
Nickel chloride (continued)			5	9	0.40	1.64				
				10	0.32	1.30				
				11	0.22	0.89				
				12	0.34	1.41				
				Mean	**0.32**	**1.31**				
2-Mercaptoben-zothiazole	2009	DMSO	10	5	0.33	1.35	NC	NC	NC	NC
				6	0.16	0.65				
				7	0.23	0.93				
				8	0.09	0.37				
				Mean	**0.20**	**0.82**				
			25	9	0.27	1.11				
				10	0.25	1.01				
				11	0.20	0.81				
				12	0.47	1.95				
				Mean	**0.29**	**1.22**				
VC[2]	2009	DMSO	0	1	0.12	0.92	NA	NA	NA	NA
				3	0.12	0.89				
				4	0.16	1.18				
				Mean	**0.13**	**1.00**				
Nickel chloride[2]	2009	DMSO	1	5	0.06	0.45				
				6	0.32	2.38				
				7	0.26	1.98				
				8	0.22	1.67				
				Mean	**0.22**	**1.62**				
			5	9	0.40	3.00				
				10	0.32	2.37				
				11	0.22	1.62				
				12	0.34	2.57				
				Mean	**0.32**	**2.39**				
2-Mercaptoben-zothiazole[2]	2009	DMSO	10	5	0.33	2.46	NC	NC	NC	NC
				6	0.16	1.18				
				7	0.23	1.70				
				8	0.09	0.67				
				Mean	**0.20**	**1.50**				
			25	9	0.27	2.02				
				10	0.25	1.84				
				11	0.20	1.48				
				12	0.47	3.56				
				Mean	**0.29**	**2.23**				
2-Mercaptoben-zothiazole[3]	2009	DMSO	0	1	0.14	1.11	15.82	16.73	19.45	20.36
				2	0.12	0.96				
				3	0.06	0.48				
				4	0.18	1.45				
				Mean	**0.13**	**1.00**				

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Substance	Ref.	Veh.	Conc. (%)	An. No.	ABS[1]	SI	EC1.5	EC1.6	EC1.9	EC2
2-Mercaptoben-zothiazole[3] (continued)			10	5	0.11	0.84				
				6	0.14	1.10				
				7	0.17	1.34				
				8	0.02	0.17				
				Mean	**0.11**	**0.86**				
			25	9	0.22	1.73				
				10	0.37	2.90				
				11	0.40	3.16				
				12	0.28	2.23				
				Mean	**0.31**	**2.51**				
Xylene	2009	AOO	0	1	0.04	0.36	14.76	15.89	19.84	21.36
				2	0.12	1.12				
				3	0.14	1.37				
				4	0.12	1.15				
				Mean	**0.11**	**1.00**				
			30	5	0.31	2.99				
				6	0.17	1.66				
				7	0.29	2.87				
				8	0.24	2.30				
				Mean	**0.25**	**2.46**				
			100	9	0.42	4.10				
				10	0.48	4.72				
				11	0.40	3.91				
				12	0.37	3.65				
				Mean	**0.42**	**4.09**				

Abbreviations: ABS = absorbance; An. No. = animal number; AOO = acetone: olive oil (4:1); Conc. = concentration; DMSO = dimethyl sulfoxide; 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); LLNA: BrdU-ELISA = murine local lymph node assay with enzyme-linked immunosorbent assay detection of bromodeoxyuridine; NA = not available; NC = not calculated because the SI was not high enough to calculate EC1.5, EC1.6, EC1.9, or EC2; Ref. = year Dr. Takeyoshi submitted data (month was December); SI = stimulation index; Veh. = vehicle.

[1] Mean of 3 replicates

[2] Same tests as previously listed in the table for this chemical, but outlier of 0.57 in DMSO control has been excluded on the basis of the outlier test in Dixon WJ, Massey FJ. 1981. Introduction to Statistical Analysis, 4th ed. Milwaukee: Quality Press.

[3] Test used CBA/J mice, rather than CBA/JN, which were used in all other tests considered in this evaluation.

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