

Table C-IV-2-1 Summary of the Results for 14 Additional Substances Tested in the LLNA: DA (Intralaboratory)¹

Substance Name	Vehicle	Concentration (%)	SI ²	Calculated EC3 (%) ³	Calculated EC2.5 (%) ⁴	Calculated EC2 (%) ⁴	Calculated EC1.8 (%) ⁴
5-Chloro-2-methyl-4-isothiazolin-3-one (CMI)	DMF	0.005	1.2	0.031	0.021	0.011	0.008
		0.010	1.9				
		0.025	2.7				
		0.050	4.0				
		0.100	7.5				
<i>p</i> -Benzoquinone	AOO	0.005	2.6	0.063	0.005	0.003	0.003
		0.010	2.6				
		0.025	2.5				
		0.050	2.7				
		0.100	3.8				
Propyl gallate	AOO	0.5	2.8	1.094	0.421	0.281	0.225
		1.0	2.9				
		2.5	4.9				
Phenyl benzoate	AOO	1.0	2.2	2.255	1.440	0.795	0.652
		2.5	3.2				
		5.0	4.2				
		10.0	3.7				
Diethyl maleate	AOO	0.5	1.9	3.705	2.084	1.181	0.889
		1.0	1.9				
		2.5	2.7				
		5.0	3.3				
		10.0	3.8				
Ethyl acrylate	AOO	10	2.5	13.943	9.793	7.537	6.788
		25	4.3				
		50	3.4				

Substance Name	Vehicle	Concentration (%)	SI ²	Calculated EC3 (%) ³	Calculated EC2.5 (%) ⁴	Calculated EC2 (%) ⁴	Calculated EC1.8 (%) ⁴
Cinnamic alcohol	AOO	10	2.4	21.341	12.195	6.540	5.230
		25	3.2				
		50	5.7				
		90	4.4				
Ethylene glycol dimethacrylate	MEK	10	1.2	34.031	28.524	22.273	19.242
		25	2.2				
		50	4.4				
Butyl glycidyl ether	AOO	10	1.2	31.682	25.922	19.919	17.500
		25	2.4				
		50	4.6				
Nickel (II) chloride	DMSO	2.5	0.9	NA	NA	NA	NA
		5.0	1.1				
		10.0	1.3				
Salicylic acid	AOO	5	1.5	NA	NA	25.000	17.683
		10	1.6				
		25	2.0				
Sulfanilamide	DMF	10	0.8	NA	NA	NA	NA
		25	0.9				
		50	0.6				
Methyl methacrylate	AOO	25	1.0	NA	NA	NA	NA
		50	1.2				
		75	1.3				
		100	1.8				
Dimethyl isophthalate ⁵	AOO	5	0.9	NA	NA	NA	NA
		10	0.9				
		25	0.8				

Abbreviations: AOO = acetone: olive oil (4:1); DMF = *N,N*-dimethylformamide; DMSO = dimethyl sulfoxide; EC3 = estimated concentration needed to produce a stimulation index of three; EC2.5 = estimated

concentration needed to produce a stimulation index of 2.5; EC2 = estimated concentration needed to produce a stimulation index of two; EC1.8 = estimated concentration needed to produce a stimulation index of 1.8; MEK = methyl ethyl ketone; NA = not applicable; SI = stimulation index.

- ¹ Original laboratory records with individual animal data for the 14 additional substances tested in the LLNA: DA intralaboratory validation study (Idehara unpublished) provided by Kenji Idehara, Ph.D., Daicel Chemical Industries, Ltd.
- ² SI determined from mean ATP content (relative luminescence units).
- ³ EC3 value was calculated based on interpolation or extrapolation formulas discussed in Gerberick et al. 2004.
- ⁴ EC value (i.e., EC2.5, EC2, or EC1.8) was calculated based on modified interpolation or extrapolation formulas for EC3 value discussed in Gerberick et al. 2004.
- ⁵ This substance was also tested in the first phase of the interlaboratory validation study (Omori et al. 2008).