

Appendix 12

Results of EpiSensA and existing test methods at 27 validation chemicals

Table 1 summarizes the results of all the test chemicals which predicted by each of the three participating laboratories during the EpiSensA validation testing, and the results of existing test methods were also summarized. LLNA reference results and the results of existing methods are based on the results which is available in Annex 2 of the Supporting document to the Guideline on Defined Approaches for Skin Sensitisation (OECD GL 497, 2021) except for dextran and tween 80. In addition, human reference results are same to Table 33 of the validation report which is based on the Annex 2 of the Supporting document to OECD GL 497 and Basketter's classification (Basketter, et al., 2014).

Table 1. Results of EpiSensA validation study and existing test methods at 27 validation chemicals.

No.	Chemicals	Reference result (LLNA)	Reference ^c result (Human)	EpiSensA			DPRA	Keratino Sens TM	h-CLAT
				LION	KOSÉ	FDSC			
1	DNCB	1A	P	P	P	P	P	P	P
2	Lauryl gallate	1A	P	N	N	N	P	P	P
3	p-Phenylenediamine	1A	P	P	P	P	P	P	P
4	Methyl heptine carbonate	1A	P	P	P	P	P	P	P
5	Glyoxal 40% solution in water	1A	P	P	P	P	P	P	P
6	Benzisothiazolinone	1B	P	N	P	P	P	P	P
7	Farnesol	1B	P	P	P	P	N	P	P
8	Ethyl acrylate	1B	P	P	P	P	P	P	P
9	Abietic acid	1B	P	P	P	P	P	P	N
10	Sodium lauryl sulfate	1B	N	P	P	P	N	N	N
11	Diethyl phthalate	NC	N	P	P	P	N	N	P
12	Hexane	NC	N	N	N	N	N	N	N
13	Dextran	NC ^a	N	N	N	N	N ^b	N ^a	N ^a
14	Tween80	NC ^a	N	N	N	N	N ^a	P ^a	N ^a
15	Lactic acid	NC	N	N	N	N	N	N	N
16	Tetrachlorosalicylanilide	1A	P	P	P	P	P	P	P
17	Glutaraldehyde	1A	P	P	P	P	P	P	P
18	2-Aminophenol	1A	P	P	P	P	P	P	P
19	Isoeugenol	1A	P	P	P	P	P	P	N
20	Lilial	1B	P	P	P	P	P	N	P
21	Methyl methacrylate	1B	P	P	P	P	P	P	P
22	Amyl cinnamic aldehyde	1B	P	P	P	P	N	P	P
23	Imidazolidinyl urea	1B	P	P	P	P	P	P	P
24	Acetanisole	NC	-	P	N	P	N	P	N
25	1-Iodohehexane	NC	-	P	P	P	P	P	P
26	propylene glycol	NC	N	N	P	P	N	N	N
27	Benzyl butyl phthalate	NC	-	N	N	N	N	P	N

a: Urbisch et al., 2015

b: Kao historical data

c: OECD GL 497 and Basketter, et al., 2014.