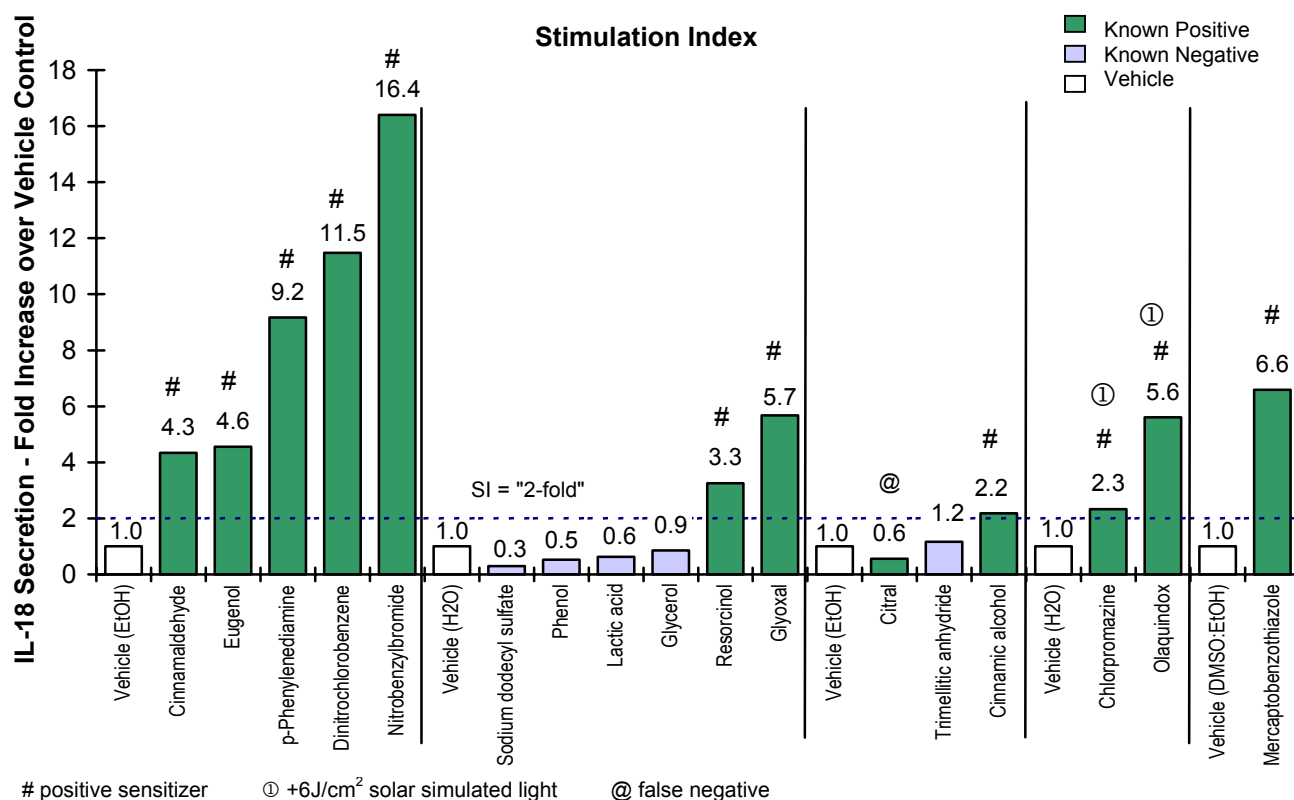


In Vitro Sensitization Assay (IVSA)

Validation of Sens-it-iv IL-18 assay in EpiDerm™ Tissues



	Known +	Known -	
Tested +	11	0	11
Tested -	1	5	6
	12	5	17

Accuracy	94%	(16/17)
Sensitivity	100%	(11/11)
Specificity	83%	(5/6)
Positive Predictivity	92%	(11/12)
Negative Predictivity	100%	(5/5)

In order to identify dermal sensitizers in an *in vitro* model, we have adapted and applied the Sens-it-iv testing paradigms to the MatTek EpiDerm™ skin model. The endpoint, IL-18 secretion, was measured after a 24-hour topical exposure of 12 sensitizers and 5 irritants/non-sensitizers. A Stimulation Index (SI) was calculated relative to the solvent vehicle for each test material. An SI > 2.0 result was considered a positive sensitizer. The overall Accuracy of the assay was 94%, with no false positives. Thus, the IVSA is a useful and predictive tool for identifying dermal sensitizers without the use of animals.

MB Research Labs, a contract research laboratory with over 40 years of experience, conducts GLP *in vitro* and *in vivo* testing in full compliance with OECD, FDA, and EPA guidelines. Contact us at clientservices@mbresearch.com for more information.



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