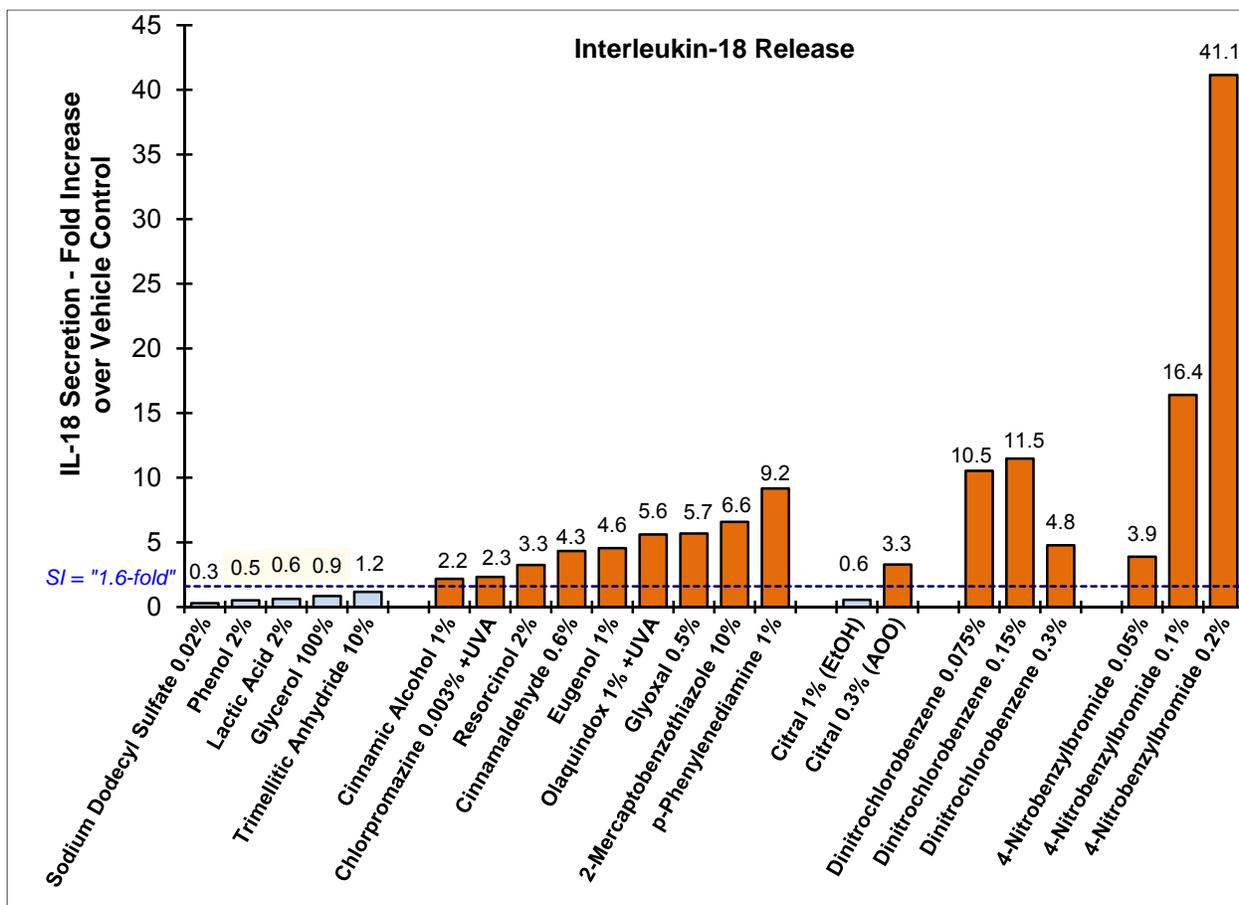


## In Vitro Sensitization Assay (IVSA)



	Known +	Known -	
<b>Tested +</b>	11	0	11
<b>Tested -</b>	1	5	6
	12	5	17

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

### Summary

In order to identify dermal sensitizers in an *in vitro* model, we adapted and have applied the Sens-it-iv testing paradigms to the MatTek EpiDerm™ EPI-200 skin model. IL-18 secretion into the tissue culture medium is 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; a material with an SI ≥1.6 was considered a positive sensitizer. A 2x2 contingency table with Cooper statistics was generated yielding an overall accuracy of 94%, with no false positives. Thus, MB Research has replicated the results communicated by MatTek's internal validation of this assay, as well as the work of Corsini, et al. [*Toxicol In Vitro* 23 (5):789-796, 2009], using monolayer keratinocyte cultures.

MB Research Laboratories, a GLP contract research laboratory with wide expertise in many areas of *in vivo* and *in vitro* testing serves the testing needs of both government and industry. Our technical and support procedures are in full compliance with OECD, FDA, and EPA.