GARD – State of the art animal free allergy testing

FOR
SCREENING OF PHARMACEUTICAL CANDIDATES
SAFETY AND POTENCY TESTING OF CHEMICALS
SAFETY AND POTENCY TESTING OF COSMETIC INGREDIENTS

GARD – The most accurate and informative
in vitro skin and respiratory sensitization test

Developed by
www.senzagen.com
SenzaGen

SenzaGen is a Swedish in vitro test lab company which offers animal free testing of chemical compounds using genomics-based methodology for immuno-toxicological assays. Our proprietary product family, GARD, replaces the need for animal testing in the cosmetic, chemical and pharmaceutical industries.

The GARD platform

The GARD assay gives a 90% accuracy in predicting test substances sensitization ability [1]. The assay has been scientifically validated in-house with, (i) chemicals blindly provided by the cosmetic industry [ii] in collaborative project with industry and (iii) by analysing a large set of blinded chemicals provided by Cosmetics Europe [1, 2].

The test is fit for purpose and is a suitable method for screening and safety testing for skin and respiratory sensitization.

The science behind

GARD utilises an in vitro model of the central player in the human immune system, dendritic cells [3, 4, 5].

GARD maps the cellular reprogramming in response to test substances based on genomic analyses. This delivers massive amounts of useful information, as compared to many single parameter assays.

In regard to the concept Adverse Outcome Pathways (AOP) and skin sensitization, GARD is adopting a more holistic approach to assessment based upon examination of altered expression of ~200 genes that are collectively of relevance to several key events in skin sensitization, illustrated by the expression of genes involved in activation of keratinocytes, dendritic cells and T cells. Consequently, individual AOPs are addressed in one single GARD test.

References

2. Manuscript in preparation

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