# Skin Sensitization—In Vitro

**Wildlife International** has teamed with **MB Research** to provide a **non-animal** Integrated Testing Strategy (ITS) for chemical-induced contact hypersensitivity (skin sensitization). This ITS provides a completely non-animal alternative to traditional testing methods. Together, our three assays address three key events on the skin sensitization adverse outcome pathway (AOP).



# MB Research-Wildlife International Integrated Testing Strategy

## The Direct Peptide Reactivity Assay

(DPRA) is an *in chemico* method used to predict epidermal protein binding. Binding of epidermal proteins is the **molecular initiating event** on the AOP. The DPRA uses HPLC to measure the depletion of synthetic peptides in solution following exposure to test chemicals.

#### <u>Advantages</u>:

DR/

Regulatory acceptance (OECD 442C) High concordance **Peptide Depletion** 



## Validated · OECD · GLP

Wildlife International

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## Sensitizer Potency

The Human Cell Line Activation Test (h-CLAT) is a dendritic cell activation test. The h-CLAT uses flow cytometry to measure CD86 and CD54 expression on treated THP-1 cells in culture.

#### Advantages:

Regulatory acceptance High concordance

#### Validated ·OECD ·GLP



#### Surface Marker Expression

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### **Interleukin-18 Release**