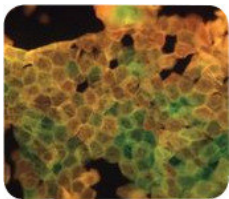


## Intertek Pharmaceutical Services

### *In vitro* Skin Toxicity Testing for Cosmetics and Personal Care Products

Assessment of dermal absorption and percutaneous penetration behaviour are essential components of the risk assessment for chemicals, cosmetics, personal care and home care products that may make contact with the skin. Furthermore, in compliance with the REACH directive (EC 1907/2006) and the 7th Amendment to the EU Cosmetics Directive (Article 4a) it is necessary for developers and manufacturers to employ *in vitro* methods for this safety testing. Intertek provides high quality customer-focused services for both skin irritation and corrosion employing validated, *in vitro* methods for a wide range of cosmetics, raw materials and personal care products.



#### *In Vitro* Skin Testing

Intertek uses *in vitro* skin models based on human reconstructed epidermis which approximates the barrier of normal human skin. The topical mode of application of the test material mimics the route of human exposure. ECVAM validated methods for Skin irritancy and corrosion can be carried out using these skin models:

Method	Description
Irritation / ECVAM validated protocol : MTT cell viability and (optional) IL-1 $\alpha$ inflammatory cytokine release	Predictions can be made about the cytotoxic effect of a product after assessment of the skin damage. This facilitates identification of potential skin irritation from ingredients or products.
Corrosion / ECVAM validated protocol : MTT cell viability	Corrosive chemicals are cytotoxic to the stratum corneum of the epidermis after a short term exposure. This test can be used to distinguish between corrosive and non-corrosive substances.

#### Intertek Cosmetic and Personal Care Product Services

Intertek's network of laboratories offer a diverse array of capabilities for the analysis of products, raw materials and consumer substrates. Specialist substrate analysis services for Skin tissue and hair employing light and electron microscopy along with the following list:

- Raw Materials Testing
- Microbiological testing
- Product De-formulation
- Problem Solving
- Toxicological Risk Assessment
- Challenge Testing
- Packaging Testing
- Physical Testing

#### Intertek Pharmaceutical and Specialty Chemical Services

The global network of Pharmaceutical and Specialty Chemical Laboratories provide high end analytical services to customers engaged in the development and manufacture of cosmetics, personal care products, pharmaceuticals and specialty chemicals.

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