

# SAFE COSMETICS



**TNO** triskelion bv

Personal care products are widely used and therefore manufacturers take care to assure safety of their products. Alternative methods are required for safety testing of these products.

Assessing the safety of ingredients in personal care products requires an alternative testing strategy, using new procedures in addition to currently used test methods that comply with the most recent regulatory guidance documents. Together with our parent company, TNO, we can offer you the latest innovative technologies focusing on new models that are better able to predict the human situation and are in line with the principle of the 3R's and the EU Seventh Amendment to the Cosmetics Directive.

#### **CONSULTANCY**

We can prepare the REACH dossiers for the registration of your products. We have thorough knowledge of regulatory affairs and can recommend efficient testing strategies for safety evaluation that optimally combine non-testing approaches, *in vitro* and *in vivo* (human) data.

### OUR TOXICOLOGY SERVICES

All of our studies can be carried out under Good Laboratory Practice (GLP).

- *In vitro* cytotoxicity assays using relevant mammalian cell lines
- *In vitro* skin irritation and corrosion in 3D skin models (OECD 439, OECD 431)
- Isolated chicken eye test for corrosion and irritation (OECD 438)
- *In vitro* skin absorption using ex vivo human skin (OECD 428)
- Bacterial reverse mutation test (Ames test) (OECD 471)
- *In vitro* mammalian cell gene mutation test (OECD 476)
- *In vitro* cell micronucleus test (OECD 487)
- *In vitro* 3T3 neutral red uptake phototoxicity test (OECD 432)

The following services are offered together with TNO, our parent company:

- *In vitro* ex vivo human skin comet assay
- *In vitro* 3D skin micronucleus assay
- PK modelling
- Dermal human microdosing studies

In addition to our toxicology services we offer analytical services, including microbiological quality, detection of impurities and information about packaging material.

### ADVANTAGES FOR CONTRACTING STUDIES AT TNO TRISKELION

- Regulatory consulting combined with high quality testing under one roof
- Back-up from our experienced toxicologists
- Early access to new models through TNO R&D investment

## WWW.TRISKELION.NL

### TNO TRISKELION BV

TNO Triskelion is a contract research organization active in toxicology research, analytical chemistry and chemical risk analyses. The mission of TNO Triskelion is to guarantee the quality and safety of food ingredients, chemical substances and medicines. TNO Triskelion is a subsidiary of TNO, the Netherlands Organisation for Applied Scientific Research.

#### VISITING ADDRESS

Utrechtseweg 48  
3704 HE Zeist  
The Netherlands

#### POSTAL ADDRESS

P.O. Box 844  
3700 AV Zeist  
The Netherlands

For more information, please contact us.

#### THE NETHERLANDS

P +31 88 866 16 20  
F +31 88 866 69 70  
pharma@tno.triskelion.nl

#### JAPAN

P +81 3 6234 4195

a **TNO** company