



SKIN IRRITATION

Title	Assessment of the irritant potential of a test element on the EPISKIN™ reconstituted epidermis model - OECD 439
Reference	Approved by the ECVAM (European Centre for the Validation of Alternatives Methods) and by the COLIPA (European Cosmetic Toiletry and Perfumery Industry Association): ATLA, 35, 559-619, 2007.
Objective	To assess quantitatively the ability of a test element to produce a decrease in cell viability penetrating the <i>stratum corneum</i> after contact for 15 minutes with the reconstituted epidermis
Test system	EPISKIN™ with <i>stratum corneum</i> from human keratinocytes (3 units of epidermis)
Schedule	Duration of the study: 4 days Beginning: 4 weeks upon receipt of the sample Report: 2-3 weeks after the end of the study
Quantity	2 x 20 g
Methodology	Assessment of the percentage of cell viability by staining of the living cells with a vital dye (MTT). Measurement of the mitochondrial activity and reading of the optical densities
Procedure	Per each reconstructed epidermis batch: D-1: • Control and storage of the test systems upon receipt D1: • Preparation of the reconstructed epidermis • Contact of the test element (15 minutes) • Incubation for 42 hours D3: • Revelation of the cytotoxicity • Incubation for 3 hours • Reading