

EpiDerm Workshop at Polymer Meeting 15

in Bratislava, Slovakia
September 04-07, 2023



Details

The EpiDerm Workshop will provide a brief overview of in vitro 3D reconstructed human tissue models and their use in toxicology and pharmacology as well as the practical demonstration of EpiDerm Skin Irritation Test (SIT) according to OECD test guideline 439 (TG 439).

EpiDerm, the 3D human skin model (Figure 1) is used across a diverse range of applications including safety and risk assessment, and biological efficacy. Simple protocols and the evaluation of early cellular endpoints allow researchers to acquire data in just a few days. EpiDerm, a Reconstructed Human Epidermis (RHE), is a ready-to-use, highly differentiated 3D tissue model consisting of normal, human-derived epidermal keratinocytes (NHEK) cultured on specially prepared tissue culture inserts and cultured at the air-liquid interface (ALI). EpiDerm allows for the evaluation of topically applied compounds, chemicals, cosmetic/personal care product ingredients, and final formulations. With multiple ECVAM validations and OECD-accepted test guidelines, EpiDerm is a proven in vitro model system for chemical, pharmaceutical, and skin care product testing.

EpiDerm SIT is a validated and accepted method under OECD TG 439, as well as the EpiDerm Skin Corrosion Test under OECD TG 431, and the EpiDerm Phototoxicity Test under OECD TG 498.

Participants will have a hands-on opportunity to practice the Skin Irritation Test with actual EpiDerm Tissue Kits. The workshop is suitable for anyone who would like to practice the method, consult the specific problem, and receive valuable information as well as those who are just considering the use of in vitro models in their research.

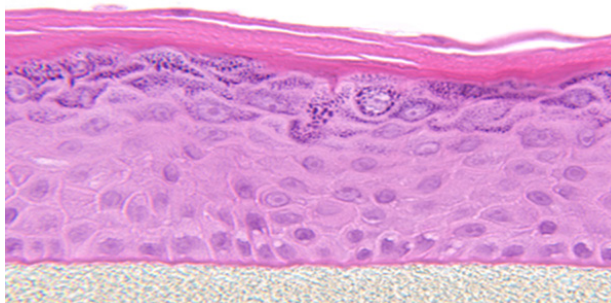


Figure 1: Hematoxylin and eosin (H&E) stained cross-section of the EpiDerm™ tissue model.