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3D Skin Model

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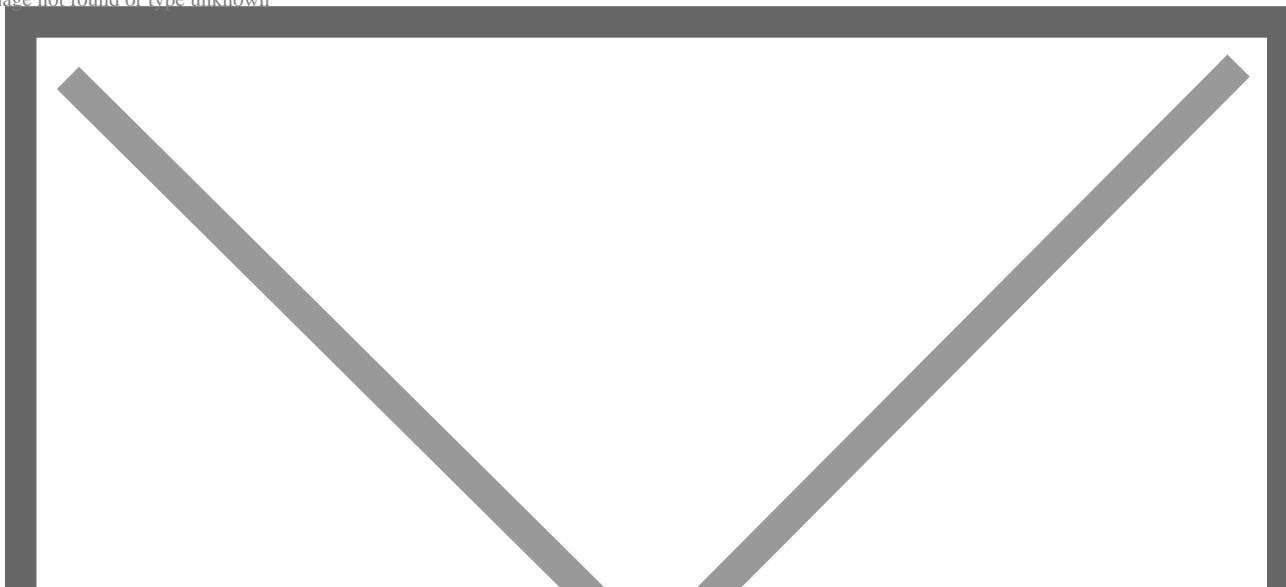
Description

The **3D Skin Model** is a highly physiological, three-dimensional cellular system of Human Epidermal Keratinocytes ^[1](HEK) for in vitro studies, offering an excellent tool to examine aspects of epithelial function and disease, particularly those related to skin biology and toxicology.

Basic science and pharmaceutical researchers use the 3D Skin Model to replace animal tests for the assessment of skin irritation due to chemicals, skin-cream-based drugs and cosmetics. CAI's Skin Model can also help avoid misclassification of chemicals and skin corrosion observed in animal systems ^(1, 2). Other applications include phototoxicity, percutaneous absorption & penetration, wound healing and metabolism. The cells are grown and differentiated into a stratified squamous epithelium on PCF sitting inserts with a liquid/air interface. [Contact us](#) ^[2] for more information.

1. Eun & Nam, *Exog Dermatol*, 2:1–5 (2003)
2. York et al., *Contact Dermatitis*, 34:204 (1996)

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^[3]
(Click to Enlarge) A. Depiction of Human Skin. B. Human Epidermal Keratinocytes (HEK) at ~80% confluency. C. Crystal Violet Staining. D. Hematoxylin & Eosin Staining of HEK differentiated into stratified squamous epithelium after 14 days.

Details

The Skin Model (domestic US) consists of HEK differentiated into stratified squamous epithelium, whereas the Kit (for international customers) contains Cryopreserved HEK, media, PCF inserts, reagents, subculture kit, and detailed instructions to form 3D Skin Model.

Products

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