

## APPLICATION NOTES

Product: TRANSKIN™

### PHENOTYPICALLY RESPONSIVE HUMAN SKIN LIKE INVITRO TISSUE EQUIVALENT – A NON-ANIMAL TISSUE MODEL FOR INVITRO TESTINGS

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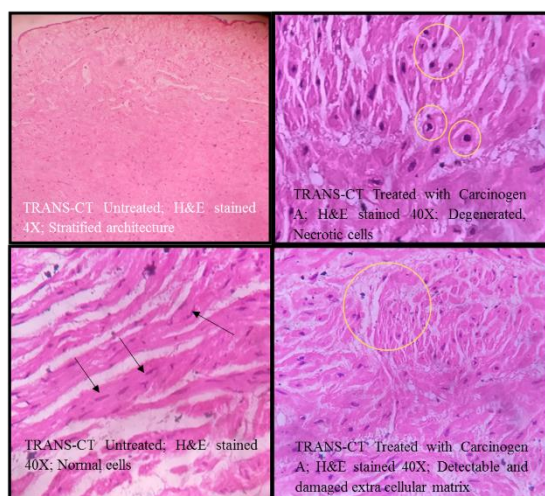
#### Product Description:

TRANSKIN is an *invitro* human tissue model composed of upper squamous epithelial layer, followed by glycogen rich metabolically active stroma with stellate cells. Arterial and venous connections are structured below epidermal like upper layer.

This model is histologically drawn analogous to multi layered tissue model like that of human skin with cells and connective tissue stratified.

Available in frozen condition. Thaw to use.

Phenotypically responsive TRANSKIN sectioned:



The tested chemical is a known carcinogen and is applied on TRANSKIN, incubated to evaluate the effect. After the exposure time, TRANSKIN is processed further to fix and diagnose the differential architectural effect/s as a whole.

#### Recommended for:

Exploratory - Evaluating toxicity of topical excipients, cosmetics; Tissue permeability studies; Chemical induced allergy, corrosion, irritation tests; Effect on Whole tissue

#### Measurable end points:

Tissue related pathological changes, Cell death

**Compatible to do:** Immunohistochemistry, Immunofluorescence, RT-PCR, Western blot, Colorimetry

**Advantages:**

- The measured end points on TRANSKIN are of human relevance
- Ready to use
- No culturing procedure involved to use
- No tissue culture facility required to use

**Features:**

Complete and well organized, multi-layered healthy tissue structure, Processed to be Bioburden free

**Benefits:**

Best suited as the easiest invitro platform to conduct exploratory preclinical assays

**TRANSIN for:**

Type of testing: Screening, Invitro

**Level of assessment:**

Test material hazard effect

**Purpose of testing**

Exploratory Preclinical evaluation for human application and compatibility

**Use Cases:**

**For in-Vitro exploratory validations in cosmetic testing**

According to PETA, between 100,000-200,000 animals-including rabbits, guinea pigs, hamsters, rats and mice -suffer and die in the name of beauty every year around the world. While the European Union banned the testing of cosmetic products on animals in 1998 and banned the sale of cosmetics whose ingredients had been tested on animals in 2013, only four states in the USA have passed laws that ban animal testing (California, New Jersey, New York and Virginia). With this ban, it makes sense to test (both exploratory and regulatory) beauty products on human skin, equivalents where the result will be out in weeks' time that would reduce the costs involved significantly.

## Features & Benefits:

- ✓ Processed Stratified Tissue model (Human sourced) prepared from biological discards.
- ✓ Available in abundance and not donor dependent
- ✓ Most suited for testing cosmetics with read outs for both exploratory and regulatory submissions
- ✓ Easy to handle; Sterile to culture and test