SKIN CORROSION PROTOCOL

SkinEthic (validated)



DFC-PRO017/01

Model

SkinEthicTM RHE

DESCRIPTION



Transfer tissues to fresh maintenance medium

Treatment: At least 2 tissues per exposure time:

o Liquids and viscous: 40 μ L ± 3 μ L (80 μ L/cm²) using nylon mesh

 $_{\circ}$ Solids: 20 μ L ± 2 μ L H₂O + 20 ± 3 mg (40 mg/cm²)

o Waxy/sticky: 20 ± 3 mg (40 mg/cm²) using nylon mesh

Treatment Period: Incubate for 3 min and 60 min at RT

Rinse 20 times with a constant soft stream of 1mL PBS-

Incubate tissues in 1 mg/mL MTT solution for 3 h \pm 15 min (37° C)

Extraction: Immerse the inserts in 1.5 mL isopropanol (extraction from top and bottom of insert)

Extract formazan overnight without shaking at 4°C or for 120 min with shaking (~120 rpm) at RT

Perforate the insert and homogenize formazan extract

Read OD with microplate spectrophotometer at 570 nm

PREDICTION MODEL

| <i>In vitro</i> Result | Classification (In vivo Prediction) |
|--|---|
| STEP 1 | |
| < 50% after 3 min exposure | Corrosive (C) |
| ≥ 50% after 3 min exposure AND < 15% after 60 min exposure | Corrosive (C) |
| ≥ 50% after 3 min exposure AND ≥ 15% after 60 min exposure | Non-corrosive |
| Step 2 for substances / mixtures identified as Corrosive in step 1 | |
| < 18% after 3 min exposure | Optional Sub-category 1A (Cat. 1A) |
| ≥ 18% after 3 min exposure | Optional Sub-categories 1B-and-1C 1A (Cat. 1B-and-1C) |

