



# Photoprotection

## Photoprotective evaluation

## Epidermal markers analysis

Model: SkinEthic™ RHE

### DESCRIPTION

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Define epidermal cytotoxicity of solar exposure without any treatment (control).



Epidermal models maintained for 24 hours in culture



Finished products or raw materials applied some time before exposure.



Exposure with UVA, UVB or SSR – adapt dose according to the flux of the irradiator



Media of Epidermal models are renewed with fresh medium after solar exposure and maintained for XXX.



Following measurements can be performed:

- UV- induced DNA fragmentation , LDH, caspase 3 activation, tunnel reaction, thymine dimers analysis.
- Histological , immunohistochemistry and immunoblotting can also be realized to characterize sunburn cells, involucrine, Cytokeratin 10, laminin, erk2 analysis.

### ENDPOINTS

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After UV exposure, cellular viability, differentiation ,phototoxicity and epidermal photoprotection, DNA damage by sunscreen topical application.