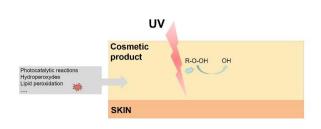
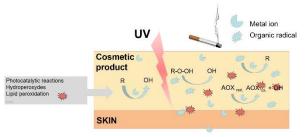
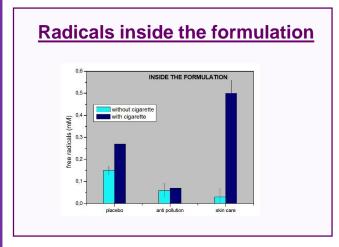
Antipollution RP on skin

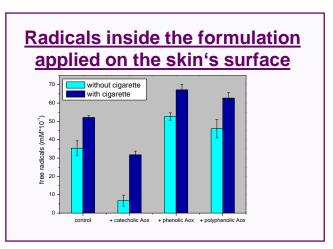
- Measures the free radical amount inside a cosmetic formulation when applied on skin and exposed to cigarette smoke air pollution.
- Oxidative stress will generate peroxide and lipid peroxide free radicals in the stratum corneum layers.
- Determines the interaction between pollutant and formulation applied on the skin surface using ESR spectroscopy.
- Efficient Anti-pollution products or actives reduce the peroxidation value of the skin.

Radical generation inside the formulation on the skin









Test Products:

cosmetic formulations, raw materials

Nota Bene: a placebo formulation is required.

Principle:

ESR spin trapping technique in formulations applied on skin biopsies.

Conditions:

Measurements are performed at RT. Fresh pig skin biopsy samples, 1 cm²

Kinetic measurements 0-10 min.

Concentration: t.a. 2 ma/cm²

Application time: 20 min.

Cigarette smoke: 5 min

UV-radiation: 300 W Newport-Oriel UV- sun simulator

(23,5 W/cm² UVB, 180 W/cm² UVA)

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