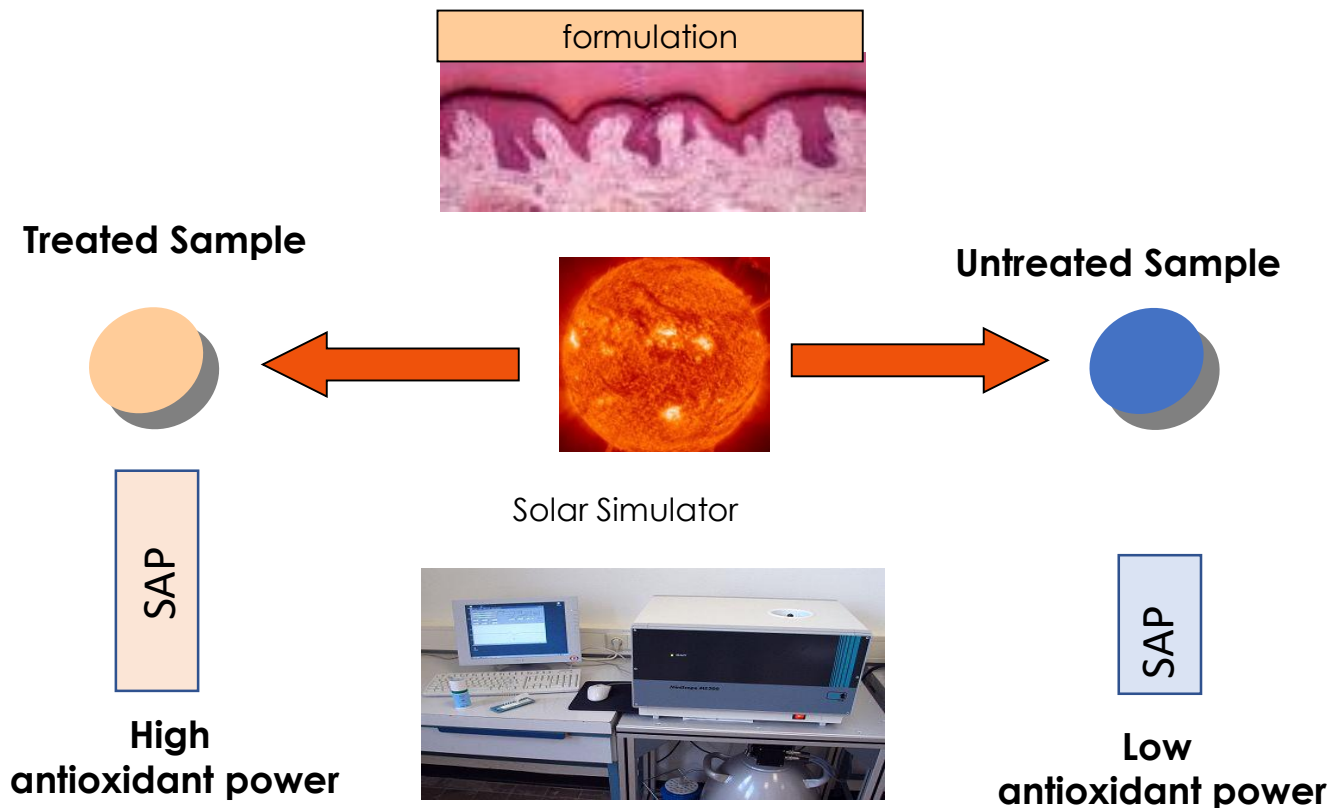


SAR

Skin Antioxidant Retention

- Measures the antioxidative activity of the skin after free radical damage (UV radiation).
- Measures the protective effect of topically applied antioxidants / free radical scavengers.
- ESR (Electron Spin Resonance) spectroscopy specifically quantifies the amount of free radicals (FR).



Test Products:

Cosmetic formulations containing antioxidants / sunscreens
Nota Bene: a placebo formulation is required.

Principle:

ESR spin probing technique on skin biopsies.

Conditions:

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

Magnettech Miniscope MS 300

Kinetic measurements 0-10 min.

Concentration: t.q. 2 mg/cm²

Application time: to be defined

UV-radiation: 300 W Newport-Oriel UV- sun simulator
(23,5 W/cm² UVB, 180 W/cm² UVA)