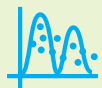


Cholesterol + Squalene + Epoxysqualene



Deliverables

This pre-validated panel includes cholesterol, squalene and 2,3-epoxysqualene and offers **fully quantitative results** (expressed in pmol). In addition, the amount of each sample used is provided (weight or volume).



Method

Cholesterol, Squalene and Epoxysqualene are analysed by **LC/ESI-MS/MS** with an Agilent 1290 HPLC system combined with an Agilent 6495 Triplequad mass spectrometer (Agilent Technologies, Santa Clara, USA). Samples are extracted with organic solvents. For lipid quantification, deuterated internal standards are added prior to sample extraction. Crude extracts are further purified by solid phase extraction (SPE). Clean extracts are loaded on the LC system for LC/ESI-MS/MS analysis. Mass spectrometry analysis is performed with multiple reaction monitoring (MRM) in positive ion mode with at least two mass transitions for each compound. Data analysis is done using Mass Hunter software (Agilent Technologies).



Sample submission guidelines

SAMPLE TYPE	SAMPLE AMOUNT	SHIPMENT CONDITIONS
Sebutape[®]	1 tape	<i>Frozen, on dry ice</i>
Skin tissue	20 mg	<i>Frozen piece of tissue, on dry ice</i>
Skin cells	1 × 10 ⁶ cells <i>or</i> 150 µg of total protein	<i>Frozen, on dry ice</i>

Minimal sample number: 10

Standard turnaround time: 6 weeks

(for projects with up to 100 samples)

Expedited delivery is possible for an additional fee.

Applications

- > Skin hydration
- > Skin aging
- > Skin diseases
(acne, eczema, psoriasis, dermatitis, rosacea)
- > Exposure of the skin to UV-irradiation, sun protection
- > Exposure of the skin to free radicals and environmental pollutants

Covered analytes

ANALYTE	CATEGORY
Cholesterol	<i>Sterol</i>
Squalene	<i>Isoprenoid</i>
2,3-Epoxy-squalene	<i>Isoprenoid</i>

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