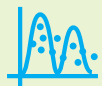


## Wax esters



### Deliverables

This pre-validated panel includes 39 wax esters and allows delivery of **fully quantitative results** (expressed in pmol). In addition, the amount of each sample used is provided (weight or volume).



### Method

Samples 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
<b>Sebutape®</b>	1	<i>Frozen, on dry ice</i>
<b>Skin tissue</b>	20 mg	<i>Piece of tissues, frozen on dry ice</i>
<b>Skin cells</b>	1 × 10 <sup>6</sup> cells or 150 µg of total protein	<i>Frozen cell pellet, 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

- > Biomarker identification for skin disorders
- > Assessment of topical treatments of skin
- > Evaluation of cosmetic products, claim support
- > Characterization of skin barrier function
- > Acne

## Covered analytes

### ANALYTE

#### Wax esters

C12:0/C14:1

C12:0/C16:0

C12:0/C16:1

C14:0/C14:1

C14:0/C16:0

C14:0/C16:1

C16:0/C14:1

C16:0/C16:0

C16:0/C16:1

C16:0/C18:0

C16:0/C18:1

C17:0/C14:0

C17:0/C15:0

C17:0/C16:0

C17:0/C16:1

C17:0/C18:0

C17:0/C19:0

C17:0/C20:1

C17:0/C22:1

C18:0/C14:1

C18:0/C16:0

C18:0/C16:1

C18:0/C18:0

C18:0/C18:1

C18:1/C16:0

C18:1/C16:1

C18:1/C18:0

C18:1/C18:1

C18:1/C19:0

C18:2/C20:0

C19:0/C18:1

C19:0/C20:1

C19:1/C14:0

C19:1/C16:0

C19:1/C18:0

C19:1/C19:0

C19:1/C22:1

C20:1/C17:0

C22:1/C16:0

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