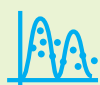


## Oxycholesterols



### Deliverables

This pre-validated panel covers 17 oxycholesterols metabolites including side chain and ring oxidation. It offers **fully quantitative results** (expressed in pmol) and the amount of each sample used is provided (weight or volume). Depending on customer needs, information on the free or total form of oxycholesterols is provided.



### Method

Oxycholesterols are analysed by **LC/APCI-MS/MS** with an Agilent 1290 HPLC system combined with an Agilent 6495 Triplequad mass spectrometer (Agilent Technologies, Santa Clara, USA). For lipid quantification, deuterated internal standards are added prior to sample extraction. Samples are extracted by solid phase extraction (SPE). Clean extracts are loaded on the LC system for LC/APCI-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>Whole blood, plasma, serum</b>	400 µl	<i>Frozen, on dry ice</i>
<b>Tissue</b>	40 mg	<i>Frozen piece of tissue, on dry ice</i>
<b>Cells</b>	2 × 10 <sup>6</sup> cells <i>or</i> 300 µg of total protein	<i>Frozen, on dry ice</i>
<b>Cell supernatant, media, liquids, etc.</b>	0.5–20 ml	<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

- > Neurodegenerative Disorders (Huntington's disease, Parkinson's disease)
- > Atherosclerosis
- > Autoimmune disorders
- > Aging
- > Cancer
- > Food quality

## Coverage

ANALYTE	CATEGORY
<b>24(S)-Hydroxycholesterol</b>	<i>Sterol</i>
<b>27-Hydroxycholesterol</b>	
On demand:	
<b>25-hydroxycholesterol</b>	
<b>4<math>\beta</math>-hydroxycholesterol</b>	
<b>5-Hydroxycholesterol</b>	
<b>7<math>\alpha</math>-hydroxycholesterol</b>	
<b>7<math>\beta</math>-hydroxycholesterol</b>	
<b>24,25-dihydrolanosterol</b>	
<b>5<math>\beta</math>,6<math>\beta</math>-dihydroxycholestanol</b>	
<b>7-dihydrocholesterol</b>	
<b>7<math>\alpha</math>,25-dihydroxycholesterol</b>	
<b>5<math>\alpha</math>,6<math>\alpha</math>-Epoxycholesterol</b>	
<b>5<math>\beta</math>,6<math>\beta</math>-Epoxycholesterol</b>	
<b>7-ketocholesterol</b>	
<b>Cholestan-3<math>\beta</math>, 5<math>\alpha</math>, 6<math>\beta</math>-triol</b>	
<b>6-oxo-cholestan-3<math>\beta</math>, 5<math>\alpha</math>-diol</b>	
<b>7<math>\alpha</math>-Hydroxy-4-cholesten-3-one</b>	

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