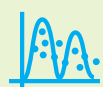


## Coenzyme Q9 + Q10



### Deliverables

This pre-validated panel includes both reduced and oxidized form of Coenzyme Q9 and Coenzyme Q10 and allows delivery of **fully quantitative results** (expressed in pmol). In addition, the amount of each sample used is provided (weight or volume).



### Method

Ubiquinones and Ubiquinols 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. 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>Whole blood, plasma, serum</b>	50 µl	<i>Frozen, on dry ice</i>
<b>Tissue</b>	20 mg	<i>Frozen pieces of tissues, on dry ice</i>
<b>Feces</b>	20 mg	<i>Frozen, on dry ice</i>
<b>Cells</b>	1 × 10 <sup>6</sup> cells or 150 µg of total protein	<i>Frozen cell pellet, 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

- > Biomarker for oxidative stress (lipid peroxidation)
- > Dietary supplementation
- > Pharmaceutical quality control
- > Neurodegenerative and cardiovascular diseases

# Covered analytes

ANALYTE	STATE	FORM
Coenzyme Q10	oxidized	ubiquinone
Coenzyme Q10	reduced	ubiquinol
Coenzyme Q9	oxidized	ubiquinone
Coenzyme Q9	reduced	ubiquinol

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