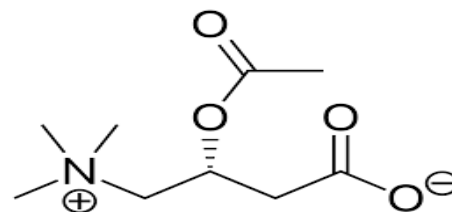


Carnitine Panel

Carnitines

Acyl-carnitine profiling is a common diagnostic test used for the diagnosis of inherited error of metabolism (mainly disorders of fatty acid oxidation that result to organic acidemias). Concentrations of carnitines are altered in primary disorders of the carnitine cycle and in disturbances of carnitine metabolism due to various biochemical disorders.



Application

- Biomarkers of mitochondrial fatty acid oxidation
- Nutrition
- Newborn screening
- Cardiovascular diseases
- Diagnostic biomarker research
- Disease pathogenesis studies

Analysis Method and Instrumentation

[Acquity UPLC Xevo TQD MS/MS \(Waters\)](#)

Sample type and required amounts

Sample Type	Sample Requirement
Serum	50 µL
Others on request	

Carnitine Panel	LOQ (ng/mL) Serum
Acetylcarnitine	78.10
Propionyl-L-carnitine	2.40
Butyryl-L-carnitine	1.20
Isobutyryl-L-carnitine	1.20
Valeryl-L-carnitine	1.20
Isovaleryl-L-carnitine	1.20
Hexanoyl-L-carnitine	1.20
Octanoyl-L-carnitine	1.20
Decanoyl-L-carnitine	1.20
Lauroyl-L-carnitine	1.20
Myristoyl-L-carnitine	1.20
Palmitoyl-L-carnitine	1.20
Stearoyl-L-carnitine	1.20
Oleoyl-L-carnitine	2.40
Linoleoyl-L-carnitine	2.40

Contact us to get started

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