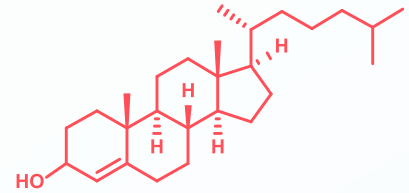




Cholesterol Metabolism Panel



Sterols

Sterols are fundamental structural components of cellular membranes and are produced by most living systems. They are synthesized de-novo but can also be acquired from the diet. Cholesterol, a common form of sterol, is oxidized in the liver to form bile acids and is a critical substrate for steroid hormone biosynthesis. Plants produce a distinct set of sterols called phytosterols that are minimally absorbed, but that serve as markers of overall sterol absorption rates. The Cholesterol Metabolism Panel measures the total sterol content. The quantitative profile of cholesterol as well as intermediates in cholesterol synthesis and oxidation, phytosterols and metabolic products of cholesterol provides a comprehensive snapshot of sterol synthesis, absorption and excretion.

Applications

- ▶ Disorders of sterol metabolism
- ▶ Evaluation of cholesterol biosynthesis modulating drugs
- ▶ Assessment of phytosterols as functional food ingredients
- ▶ Basic research of cholesterol biosynthesis

Cholesterol Metabolism Panel	LLOQ*	
	Plasma	Tissue/Feces
7- α -Hydroxycholesterol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
7-Dehydrocholesterol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
Cholestanol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
Desmosterol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
Lanosterol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
Lathosterol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
Coprostanol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
Campesterol	0.0200 $\mu\text{g/mL}$	0.0200 $\mu\text{g/g}$
Stigmasterol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
β -Sitosterol	0.0100 $\mu\text{g/mL}$	0.0100 $\mu\text{g/g}$
Cholesterol	0.0100 mg/mL	0.0100 mg/g

*Lower Limit of Quantitation (LLOQ) varies for each sample type

The panel is for non-GxP testing and is not for diagnostic use

Analysis Method and Instrumentation

LC-MS/MS (Agilent 1290 Infinity II UHPLC/Sciex QTrap 6500+)

Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma/Serum	150 - 250 μL
Tissue/Feces	50 - 150 mg
Others on request	

Contact us to get started
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