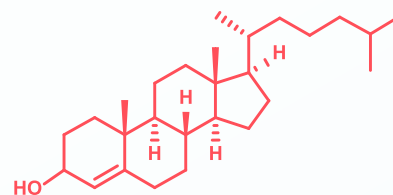




Oxysterols Targeted Panel



Your new tool in the fight against major disease

Oxysterols intermediates in the development of bile acids, steroid hormones, 1,25- dihydroxyvitamin D3, and other potential bioactive indicators of disease states. While understanding a disease phenotype is critical for effective treatment of disease, metabolomic research into the possible precursors of a disease is the next step in the fight for disease prevention. **The Metabolon Oxysterols Targeted Panel provides absolute quantification in the identification and detection of 12 oxysterols**, so you can further your research, faster.

The world is waiting

Life Sciences have reached a new frontier in analytical sciences. With highly sensitive analytical methods, scientists are discovering new relationships between metabolites and disease states.

Oxysterols – oxidized products of cholesterol – are bioactive intermediaries that are associated with certain diseases, and further research is required to understand their role in disease pathogenesis. The potential influence of oxysterols across many conditions from cardiovascular diseases such as atherosclerosis, to Alzheimer's disease, Diabetes, and cancer suggests that further research and understanding of oxysterols may help to better understand these conditions.

Analyte	LLOQ
	Plasma
24-Hydroxycholesterol	10.0 ng/mL
27-Hydroxycholesterol	20.0 ng/mL
Desmosterol	100 ng/mL
7-Dehydrocholesterol	100 ng/mL
8-Dehydrocholesterol	25.0 ng/mL
Lathosterol	200 ng/mL
5 α , 6 α -epoxycholesterol	15.0 ng/mL
4 β -Hydroxycholesterol	5.00 ng/mL
Cholesterol	0.125 mg/mL
Lanosterol	10.0 ng/mL
5 α , 6 β -Dihydroxycholestanol	10.0 ng/mL
7 α , 27-Dihydroxycholesterol	10.0 ng/mL

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

This panel is for Research Use Only and is not to be used for diagnostic purposes.

Analysis Method and Instrumentation

LC-MS/MS (Agilent 1290 UHPLC/Sciex QTrap 5500 and 6500+)

Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma	150 to 200 μ L

Others on request.



Metabolon's Solution for Oxysterol Metabolomic Analyses'

The **Metabolon Target: Oxysterols** targeted panel measures 12 oxysterols and related sterols of biological significance most commonly found in the human biology. Our validated method of oxysterol detection and identification in **human plasma** samples enables you to gain additional insights into the presence and significance of oxysterols within your cohorts – helping you to discern whether oxysterols are a significant biomarker for a disease state or inflammatory response within your study, and whether their detection may be used as a precursor for medical screening.

Working With Metabolon

With over 20 years' experience helping commercial and academic studies gain insights from metabolomic analyses' and with over 2,000 citations in scientific journals, Metabolon is leading the way in applied metabolomics solutions worldwide.

From study design to sample collection, report visualization to biological interpretation, Metabolon experts guide you every step of the way. We give our customers confidence in the data deliverables of any metabolomic study, and we also offer insights into the data so that you can more easily make conclusions and plan your follow-on research more decisively.

Quality is at the core of everything we do. We strictly adhere to quality standards and regulations, clinical laboratory practice guidelines, and FDA and EMA regulations, where applicable, so you can be confident in our ability to match your quality standards.

Conclusion

It is estimated over 85,000¹ people die every day from curable, or preventative conditions linked to oxysterols. Let's work together to gain further insights into the role of oxysterols and move one step closer towards answers that change the landscape of human disease.

To learn more about Metabolon's expertise and coverage in metabolomic analysis, visit metabolon.com/oxysterols.

1. [How many people die each day and what are they dying from?](https://www.weforum.org/agenda/2018/01/how-many-people-die-each-day-and-what-are-they-dying-from/)
[World Economic Forum \(weforum.org\)](https://www.weforum.org/agenda/2018/01/how-many-people-die-each-day-and-what-are-they-dying-from/)

Contact us to get started
metabolon.com

+1 (919) 572-1711
617 Davis Drive, Suite 100, Morrisville, NC, 27560
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