



# Purine Catabolism Panel



## Purines

Purines are heterocyclic aromatic organic compounds consisting of a pyrimidine ring fused to an imidazole ring. Xanthine, hypoxanthine and inosine are products of purine catabolism and are known reactive oxygen species (ROS) that contribute to oxidative stress. Purine metabolism imbalance leading to increases in catabolic by-products have been linked to endothelial dysfunction and vascular inflammation.

## Applications

- ▶ Biological biomarkers of oxidative stress
- ▶ Endothelial dysfunction
- ▶ Mitochondrial function research
- ▶ Disease progression and pathogenicity
- ▶ Nutraceuticals
- ▶ Dietary intervention

Purine Catabolism Panel	LLOQ
	Plasma/Serum
Xanthine	25.0 ng/mL
Hypoxanthine	75.0 ng/mL
Inosine	5.00 ng/mL

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

### Analysis Method and Instrumentation

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

### Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma/Serum	100 - 150 $\mu$ L
Others on request	

**Contact us to get started**  
[info@metabolon.com](mailto:info@metabolon.com)

+1 (919) 572-1711  
[metabolon.com](http://metabolon.com)  
 617 Davis Drive, Suite 100, Morrisville, NC, 27560  
 © 2021 Metabolon, Inc. All rights reserved. TA.PCM.211111