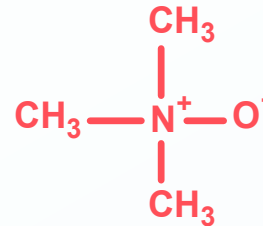




# Trimethylamine N-oxide Assay



## Trimethylamine N-oxide (TMAO)

Trimethylamine (TMA) is a metabolite produced by certain gut bacteria from choline, betaine and carnitine found in red meat, eggs, fish and poultry. TMA is converted into TMAO in the liver and elevated plasma levels of TMAO have been linked to increased risk for major adverse cardiovascular events. Ongoing studies aim to determine if TMAO is a mediator of cardiovascular disease or a bystander in the disease process. Since specific gut bacteria play a central role in the production of TMAO, natural product therapeutics aimed at altering gut microbiota composition have gained interest.

## Applications

- ▶ Biopharmaceutical modulation of the host microbiome
- ▶ Bacterial product development
- ▶ Nutraceuticals and probiotics
- ▶ Dietary intervention
- ▶ Gut health and wellness
- ▶ Basic microbiome research

TMAO Assay	LLOQ
	Plasma/Serum
Trimethylamine-N-oxide	7.50 ng/mL

The assay 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.TMAO.211111