



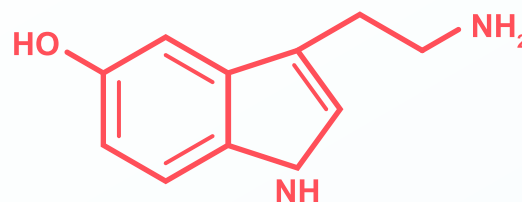
# Serotonin

Serotonin (5-HT, 5-hydroxytryptamine) functions as a neurotransmitter and hormone. Most of the human body's total serotonin is synthesized in the GI tract, where it regulates intestinal movements. Serotonin is also stored by human platelets, where it can serve as a vasoconstrictor. In the brain, it regulates numerous physiological processes, including mood, cognition, reward, learning and memory.

Imbalances of serotonin can cause several mental health disorders, including depression and schizophrenia. Several classes of antidepressants target serotonin modules in the brain, augmenting the neurotransmitter levels in the synapses.

## Applications

- ▶ Neurological disorders
- ▶ Cardiovascular diseases
- ▶ Health & wellness
- ▶ Gut health & wellness



Panel	LLOQ*		
	Plasma/Serum and CSF	Whole Blood	Urine
Serotonin	150 pg/mL	25.0 ng/mL	4.0 ng/mL

\*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 UHPLC/Sciex QTrap 5500)

## Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma/Serum	250 - 300 $\mu$ L
Whole Blood	250 - 300 $\mu$ L
Whole Blood	250 - 300 $\mu$ 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.SER.211111