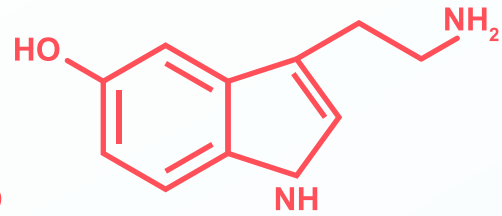




Urinary Catecholamines & Serotonin



Catecholamines function as both neurotransmitters and hormones, regulating various physiological processes and bodily functions. In addition to acting in the brain, catecholamines also act in the periphery where they are being released from the adrenal glands into the blood in response to physical or emotional stress. Catecholamines are metabolized into inactive compounds that are eliminated from the body in the urine. Dopamine is ultimately converted into 3,4-dihydroxyphenylacetic acid, norepinephrine breaks down into normetanephrine and vanillylmandelic acid, and epinephrine becomes vanillylmandelic acid.

Catecholamines and serotonin are sometimes produced in excess amount by certain cancers, resulting in increased concentrations in the urine. Evidence suggests that these neurotransmitters excreted in the urine may be also used as a biomarker of nervous system function to diagnose mental health disorders and monitor treatment efficacy.

Applications

- ▶ Neurological disorders
- ▶ Stress
- ▶ Health & wellness
- ▶ Cancer

Analyte	LLOQ
	Urine
Serotonin	4.00 ng/mL
Norepinephrine	4.00 ng/mL
Normetanephrine	1.00 ng/mL
3,4-Dihydroxyphenylacetic Acid	50.0 ng/mL
Vanillylmandelic Acid	250 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
Urine	250 - 300 μ L
Others on request	

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