



Polyamine Panel



Polyamines

Polyamines are naturally abundant, low-molecular weight polycations that interact with negatively charged molecules such as DNA, RNA and proteins to modulate cellular functions such as gene transcription, protein translation, cell growth, membrane stability, and chromatic structure. Free, unbound polyamine levels within the cell are maintained within very narrow ranges (i.e., 7-10% of the total cellular polyamine content) and are strictly regulated since polyamine imbalance can have toxic effects on the cell. Changes in polyamine levels have been associated with aging and disease such as cancer.

Applications

- ▶ Biopharmaceutical modulation of cellular functions
- ▶ Anti-aging product development
- ▶ Cancer therapeutics research
- ▶ Basic tumorigenesis research
- ▶ Nutrition and dietary intervention
- ▶ Ornithine decarboxylase activity

Polyamine Panel	LLOQ
	CSF
Putrescine	2.50 ng/mL
N-Acetylputrescine	1.25 ng/mL
Spermine	0.625 ng/mL
Spermidine	1.25 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
CSF	100 - 150 µL
Others on request	

Contact us to get started
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