

# Certificate of Analysis

## Spermidine

N'-(3-aminopropyl)butane-1,4-diamine

**Compound** : Spermidine  
**Lot number** : ULN-53151  
**Analysis date** : 2023-09-21  
**Purity %** : 100.00%  
**Method** : Mass Spectrometry

**Client :** UMBRELLA.us  
3280 E Hemisphere Loop  
Tucson, Arizona 85706

PubChem CID: 1102

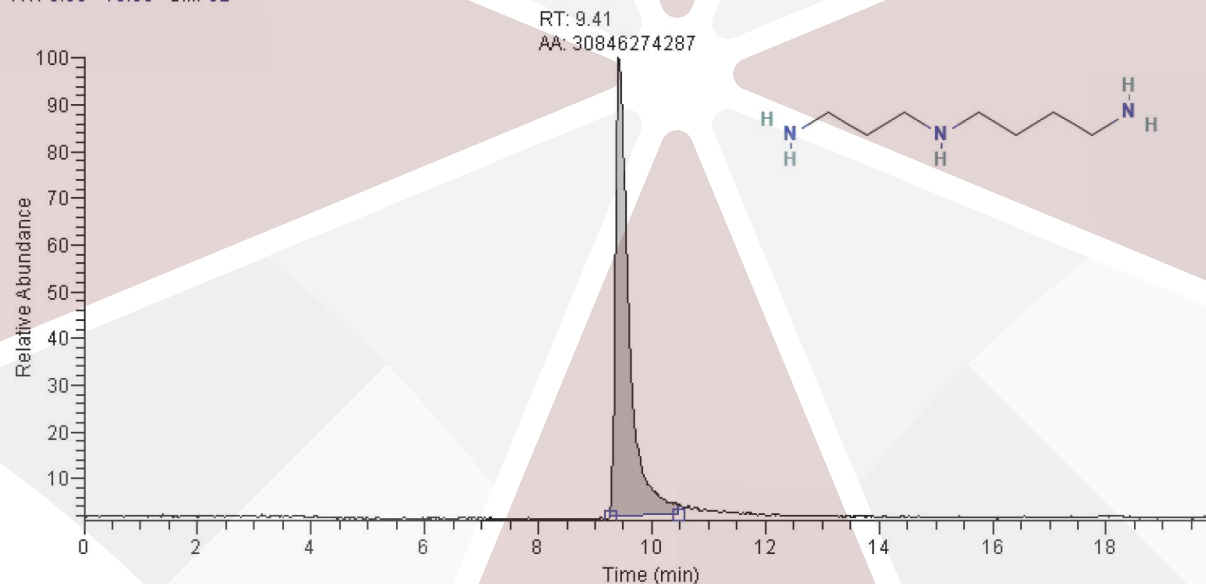
<https://pubchem.ncbi.nlm.nih.gov/compound/1102>

BG\_Spermidine\_ULN-53151\_230920151410

9/21/2023 2:09:01 PM

Background subtracted file

RT: 0.00 - 19.98 SM: 3B



PEAK LIST	Number of detected peaks: 1		
Time (min)	Area	%Area	
9.41	3.08E+10	100.00	Spermidine

Analysis Performed by  
Ken Pendarvis, ChE  
Analytical Chemist  
contact@mzbiolabs.com

Purity determined using mass spectrometry  
Peak identity confirmed by mass spectrum evaluation  
Expected mass: 145.2 g  
Measured mass: 145.1 g  
Molecular weight confirmed



2023-09-21