

Certificate of Analysis

Sulbutiamine

Bisibutiamine

| | | | |
|----------------------|-----------------------------------|---------------|---------------------------------|
| Compound | : Sulbutiamine | Client | : UMBRELLA.us |
| Lot number | : ULN-51092 | | : 3280 E Hemisphere Loop |
| Analysis date | : 2023-07-10 | | : Tucson, Arizona 85706 |
| Purity % | : 100.0% | | |
| Method | : Mass Spectrometry and UV | | |

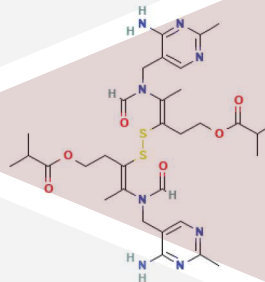
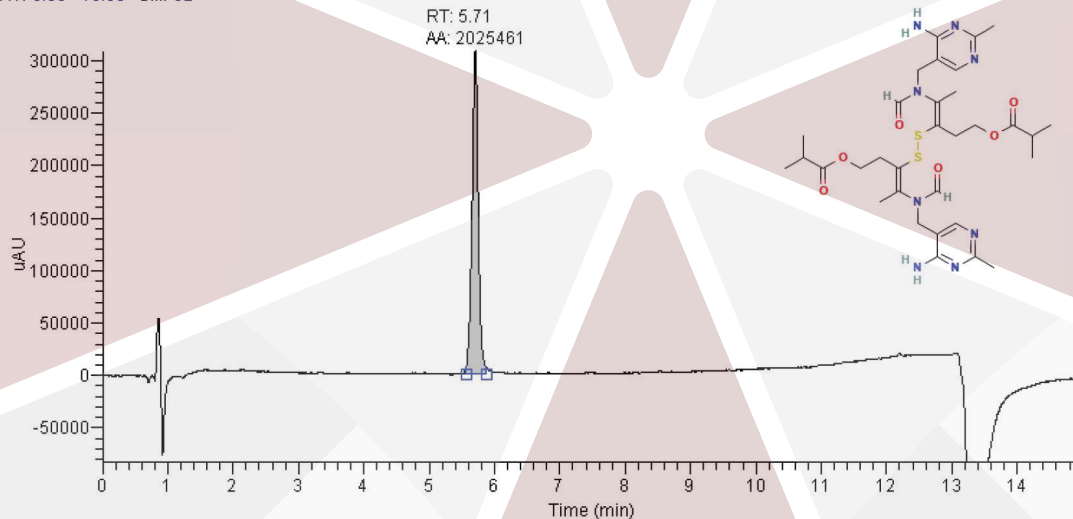
PubChem CID: 20055424

<https://pubchem.ncbi.nlm.nih.gov/compound/20055424>

C:\Xcalibur\...\Sulbutiamine_ULN-51092

7/10/2023 10:01:32 PM

RT: 0.00 - 15.00 SM: 3B




NL:
 3.09E5
 Channel A
 UV
 Genesis
 Sulbutiami
 ne_ULN-
 51092

| PEAK LIST | Number of detected peaks: 1 | | |
|-------------|-----------------------------|--------------|---------------------|
| Time (min) | Area | %Area | |
| 5.71 | 2.03E+06 | 100.0 | Sulbutiamine |

Analysis Performed by
 Ken Pendarvis, ChE
 Analytical Chemist
 MZ Biolabs
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Purity determined using UV detection
 Peak identity confirmed by mass spectrum evaluation
 Expected mass : 702.3 g
 Measured mass : 702.3 g
 Molecular weight confirmed



2023-07-14