

NuMega Resonance Labs

Fast Reliable Services

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April 28, 2026

NuMega Reference #
2602BROM.636D

Company: Bromantane LLC

Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

Sample ID	Paraxanthine
Standard	Ethylene Carbonate
Weight of Standard (wt _{st})	1.296
Weight of Sample (wt _{sa})	8.509
Assumed Sample Molecular Weight (MW _{sa})	180.16
Standard Molecular Weight (MW _{st})	88.06
Integration of Sample (I _{sa})	79.30
Integration of Standard (I _{st})	100
# of Equivalent Nuclei in Standard (n _{st})	4
# of Equivalent Nuclei in Sample (n _{sa})	1
Assigned Purity of Standard % (P)	99.71
Purity %	98.6

Formula Used for Calculation:

$$Purity \% = \frac{wt_{st}}{wt_{sa}} \times \frac{MW_{sa}}{MW_{st}} \times \frac{I_{sa}}{I_{st}} \times \frac{n_{st}}{n_{sa}} \times P$$