

# NuMega Resonance Labs

*Fast Reliable Services*

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May 8, 2026

**NuMega Reference #**  
2602BROM.673D

Company: Bromantane LLC

## Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

Sample ID	Asp-4345
Standard	Ethylene Carbonate
Weight of Standard (wt <sub>st</sub> )	1.287
Weight of Sample (wt <sub>sa</sub> )	11.388
Assumed Sample Molecular Weight (MW <sub>sa</sub> )	438.79
Standard Molecular Weight (MW <sub>st</sub> )	88.06
Integration of Sample (I <sub>sa</sub> )	177.81
Integration of Standard (I <sub>st</sub> )	100
# of Equivalent Nuclei in Standard (n <sub>st</sub> )	4
# of Equivalent Nuclei in Sample (n <sub>sa</sub> )	4
Assigned Purity of Standard % (P)	99.71
Purity %	99.8

Formula Used for Calculation:

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