

NuMega Resonance Labs

Fast Reliable Services

11526 Sorrento Valley Road, Suite B-2 ♦ San Diego, CA 92121 ♦ USA
Phone 858-793-6057 ♦ Fax 858-793-2607

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NuMega Reference #

2509BROM.071D

Bromantane
PO box 17063
Sarasota, FL
bromantanespray@protonmail.com

Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

| | |
|---|--------------------|
| Sample ID | SLU-PP-332 |
| Standard | Ethylene Carbonate |
| Weight of Standard (wt _{st}) | 1.563 |
| Weight of Sample (wt _{sa}) | 9.448 |
| Assumed Sample Molecular Weight (MW _{sa}) | 290.32 |
| Standard Molecular Weight (MW _{st}) | 88.06 |
| Integration of Sample (I _{sa}) | 90.43 |
| Integration of Standard (I _{st}) | 100 |
| # of Equivalent Nuclei in Standard (n _{st}) | 4 |
| # of Equivalent Nuclei in Sample (n _{sa}) | 2 |
| Assigned Purity of Standard % (P) | 99.71 |
| Purity % | 98.4% |

Formula Used for Calculation:

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