

# 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 #

2502brom.098a

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

## Quantitative Analysis Report

*Bruker 500 MHz, AVII-500 and AV-500*

Sample ID	BPN14770
Standard	Ethylene Carbonate
Weight of Standard (wt <sub>st</sub> )	1.513
Weight of Sample (wt <sub>sa</sub> )	12.172
Assumed Sample Molecular Weight (MW <sub>sa</sub> )	405.80
Standard Molecular Weight (MW <sub>st</sub> )	88.06
Integration of Sample (I <sub>sa</sub> )	86.72
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> )	2
Assigned Purity of Standard % (P)	99.71
Purity %	99.1%

Formula Used for Calculation:

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