

# NuMega Resonance Labs

*Fast Reliable Services*

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NuMega Reference #

2409brom.325h

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## Quantitative Analysis Report

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

Sample ID	Piracetam
Standard	Ethylene Carbonate
Weight of Standard (wt <sub>st</sub> )	1.181
Weight of Sample (wt <sub>sa</sub> )	12.555
Assumed Sample Molecular Weight (MW <sub>sa</sub> )	142.16
Standard Molecular Weight (MW <sub>st</sub> )	88.06
Integration of Sample (I <sub>sa</sub> )	330.31
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 %	100.0%

Formula Used for Calculation:

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