

# NuMega Resonance Labs

*Fast Reliable Services*

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**NuMega Reference #**  
2604BROM.204C

Company: Bromantane LLC

## Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

| Sample ID                                             | Piracetam          |
|-------------------------------------------------------|--------------------|
| Standard                                              | Ethylene Carbonate |
| Weight of Standard (wt <sub>st</sub> )                | 2.535              |
| Weight of Sample (wt <sub>sa</sub> )                  | 10.813             |
| 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> )              | 132.41             |
| 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 %                                              | 99.9               |

Formula Used for Calculation:

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