

# NuMega Resonance Labs

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**NuMega Reference #**

**2603BROM.748B**

Company: Bromantane LLC

## Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

Sample ID	TAK 653
Standard	1,3,5-trimethoxybenzene
Weight of Standard (wt <sub>st</sub> )	1.243
Weight of Sample (wt <sub>sa</sub> )	13.248
Assumed Sample Molecular Weight (MW <sub>sa</sub> )	373.47
Standard Molecular Weight (MW <sub>st</sub> )	168.19
Integration of Sample (I <sub>sa</sub> )	316.26
Integration of Standard (I <sub>st</sub> )	100
# of Equivalent Nuclei in Standard (n <sub>st</sub> )	3
# of Equivalent Nuclei in Sample (n <sub>sa</sub> )	2
Assigned Purity of Standard % (P)	99.83
Purity %	98.7

Formula Used for Calculation:

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