

NuMega Resonance Labs *Fast Reliable Services*

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Bromantane, LLC

NuMega Reference #

2211BROM.874

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Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

Sample ID	Idebenone
Standard	Maleic acid
Weight of Standard (wt _{st})	2.942
Weight of Sample (wt _{sa})	10.044
Sample Molecular Weight (MW _{sa})	338.44
Standard Molecular Weight (MW _{st})	116.04
Integration of Sample (I _{sa})	173.72
Integration of Standard (I _{st})	100
# of Equivalent Nuclei in Standard (n _{st})	2
# of Equivalent Nuclei in Sample (n _{sa})	3
Assigned Purity of Standard % (P)	99.82
Purity %	98.8%

Formula Used for Calculation:

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