

NuMega Resonance Labs

Fast Reliable Services

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NuMega Reference #

2409brom.325j

Bromantane
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Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

Sample ID	Carnosic Acid
Standard	Maleic Acid
Weight of Standard (wt _{st})	1.983
Weight of Sample (wt _{sa})	10.526
Assumed Sample Molecular Weight (MW _{sa})	332.42
Standard Molecular Weight (MW _{st})	116.04
Integration of Sample (I _{sa})	90.14
Integration of Standard (I _{st})	100
# of Equivalent Nuclei in Standard (n _{st})	2
# of Equivalent Nuclei in Sample (n _{sa})	1
Assigned Purity of Standard % (P)	99.94
Purity %	97.2%

Formula Used for Calculation:

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