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NuMega Reference #

2600BROM.371D

Bromantane

Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

Sample ID	Carnosic Acid
Standard	Maleic Acid
Weight of Standard (wt_{st})	1.592
Weight of Sample (wt_{sa})	9.724
Assumed Sample Molecular Weight (MW_{sa})	332.42
Standard Molecular Weight (MW_{st})	116.04
Integration of Sample (I_{sa})	106.10
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 %	99.5%

Formula Used for Calculation:

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