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NuMega Reference #

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Quantitative Analysis Report

Bruker 500 MHz, AVII-500 and AV-500

Sample ID	trans-resveratrol
Solvent	DMSO
Standard	Ethylene Carbonate
Weight of Standard (wt _{st})	1.452
Weight of Sample (wt _{sa})	17.221
Sample Molecular Weight (MW _{sa})	228.25
Standard Molecular Weight (MW _{st})	88.06
Integration of Sample (I _{sa})	111.79
Integration of Standard (I _{st})	100
# of Equivalent Nuclei in Standard (n _{st})	4
# of Equivalent Nuclei in Sample (n _{sa})	1
Assigned Purity of Standard % (P)	99.92
Purity % *	97.6%

Formula Used for Calculation:
$$WT\% = \frac{wt_{st}}{wt_{sa}} \times \frac{MW_{sa}}{MW_{st}} \times \frac{I_{sa}}{I_{st}} \times \frac{n_{st}}{n_{sa}} \times P$$