

# NuMega Resonance Labs

*Fast Reliable Services*

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NuMega Reference #

2400BROM.574E

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## Quantitative Analysis Report

*Bruker 500 MHz, AVII-500 and AV-500*

Sample ID	TAK-653
Standard	Maleic acid
Weight of Standard (wt <sub>st</sub> )	1.494
Weight of Sample (wt <sub>sa</sub> )	9.105
Assumed Sample Molecular Weight (MW <sub>sa</sub> )	373.47
Standard Molecular Weight (MW <sub>st</sub> )	116.04
Integration of Sample (I <sub>sa</sub> )	470.90
Integration of Standard (I <sub>st</sub> )	100
# of Equivalent Nuclei in Standard (n <sub>st</sub> )	2
# of Equivalent Nuclei in Sample (n <sub>sa</sub> )	5
Assigned Purity of Standard % (P)	99.94
Purity %	99.4%

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