

# **NuMega Resonance Labs**

*Fast Reliable Services*

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NuMega Reference #

**2407BROM.134L**

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## Quantitative Analysis Report

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

Sample ID	mirodenafil
Standard	Ethylene Carbonate
Weight of Standard (wt <sub>st</sub> )	1.176
Weight of Sample (wt <sub>sa</sub> )	13.011
Assumed Sample Molecular Weight (MW <sub>sa</sub> )	531.67
Standard Molecular Weight (MW <sub>st</sub> )	88.06
Integration of Sample (I <sub>sa</sub> )	91.54
Integration of Standard (I <sub>st</sub> )	100
# of Equivalent Nuclei in Standard (n <sub>st</sub> )	4
# of Equivalent Nuclei in Sample (n <sub>sa</sub> )	2
Assigned Purity of Standard % (P)	99.71
Purity %	99.6%

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