

PQ Protocol



Company: Moscow State University of
Operator: Default
Instrument Type: Senterra Microscope 532 nm Grating 1200
Optics Configuration: Microscope with: 532 nm, Grating 1200, CCD
Accessory: None
Instrument Serial Number: Result
Instrument Firmware Version: Result
OPUS/DB Version: 20090227 / 6.5.9
Overall Test Result: PASS
Test expires: 2013/01/18 18:59:16
Test Date/Time: 2012/01/18 18:59:16
Test Spectra Path: C:\Program Files\OPUS_65\Validation\Data\20120118\185916
Comment:

Wavelength Accuracy Test

1. Peak specified:	391.5 cm ⁻¹	1. Peak measured:	391.9 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.37 cm ⁻¹
2. Peak specified:	857.9 cm ⁻¹	2. Peak measured:	858.3 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.44 cm ⁻¹
3. Peak specified:	1168.5 cm ⁻¹	3. Peak measured:	1168.8 cm ⁻¹
Max. Deviation Limit:	0.50 cm ⁻¹	Measured Deviation:	0.27 cm ⁻¹
4. Peak specified:	1323.9 cm ⁻¹	4. Peak measured:	1324.0 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.13 cm ⁻¹
5. Peak specified:	1648.4 cm ⁻¹	5. Peak measured:	1648.5 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.11 cm ⁻¹
6. Peak specified:	2931.1 cm ⁻¹	6. Peak measured:	2931.2 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.06 cm ⁻¹

Spectral Resolution Test

Peak specified: 1085.0 cm⁻¹
Resolution Limit: 4.50 cm⁻¹ Measured Resolution: 2.73 cm⁻¹

Spectral Resolution Neon Test

Peak specified: 2402.0 cm⁻¹
Resolution Limit: 3.00 cm⁻¹ Measured Resolution: 2.35 cm⁻¹

Throughput Test

Throughput minimum requirement: 3500 Throughput measured: 13158

Photometric Consistency Test



1. Peak specified:	620.9 cm ⁻¹	1. Peak measured:	621.2 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	5.787 %
2. Peak specified:	1001.4 cm ⁻¹	2. Peak measured:	1001.6 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	0.000 %
3. Peak specified:	1602.3 cm ⁻¹	3. Peak measured:	1602.7 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	6.433 %
4. Peak specified:	2904.5 cm ⁻¹	4. Peak measured:	2906.1 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	0.638 %
5. Peak specified:	3054.3 cm ⁻¹	5. Peak measured:	3055.5 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	1.264 %

Overall Test Result = PASS



Date and Signature

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