

OQ 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:	0.42 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:	0.43 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:	0.25 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:	0.10 cm ⁻¹
5. Peak specified:	1648.4 cm ⁻¹	5. Peak measured:	1648.6 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.24 cm ⁻¹
6. Peak specified:	2931.1 cm ⁻¹	6. Peak measured:	2931.3 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.20 cm ⁻¹

Spectral Resolution Test

Peak specified:	1085.0 cm ⁻¹	Measured Resolution:	2.65 cm ⁻¹
Resolution Limit:	4.50 cm ⁻¹		

Spectral Resolution Neon Test

Peak specified:	2402.0 cm ⁻¹	Measured Resolution:	2.34 cm ⁻¹
Resolution Limit:	3.00 cm ⁻¹		

Throughput Test

Throughput minimum requirement:	6500	Throughput measured:	12583
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Photometric Consistency Test



1. Peak specified:	620.9 cm ⁻¹	1. Peak measured:	621.3 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	7.817 %
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:	6.368 %
4. Peak specified:	2904.5 cm ⁻¹	4. Peak measured:	2906.2 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	3.623 %
5. Peak specified:	3054.3 cm ⁻¹	5. Peak measured:	3055.4 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	5.375 %

Dark Noise Test



Dark Noise Limit:	100	Dark Noise measured:	19
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Overall Test Result = PASS



Date and Signature

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