

PQ Protocol



Company: Moscow State University of
Operator: Default
Instrument Type: Senterra Microscope 785 nm Grating 1200
Optics Configuration: Microscope with: 785 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 17:09:33
Test Date/Time: 2012/01/18 17:09:33
Test Spectra Path: C:\Program Files\OPUS_65\Validation\Data\20120118\170933
Comment:

Wavelength Accuracy Test

1. Peak specified:	391.5 cm ⁻¹	1. Peak measured:	391.5 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.04 cm ⁻¹
2. Peak specified:	857.9 cm ⁻¹	2. Peak measured:	858.1 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.19 cm ⁻¹
3. Peak specified:	1168.5 cm ⁻¹	3. Peak measured:	1168.6 cm ⁻¹
Max. Deviation Limit:	0.50 cm ⁻¹	Measured Deviation:	0.08 cm ⁻¹
4. Peak specified:	1323.9 cm ⁻¹	4. Peak measured:	1323.9 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.04 cm ⁻¹
5. Peak specified:	1648.4 cm ⁻¹	5. Peak measured:	1648.2 cm ⁻¹
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	0.16 cm ⁻¹
6. Peak specified:	2931.1 cm ⁻¹	6. Peak measured:	---
Max. Deviation Limit:	1.00 cm ⁻¹	Measured Deviation:	---

Spectral Resolution Test

Peak specified: 1085.0 cm⁻¹
Resolution Limit: 4.50 cm⁻¹ Measured Resolution: 2.53 cm⁻¹

Spectral Resolution Neon Test

Peak specified: 2402.0 cm⁻¹
Resolution Limit: 3.00 cm⁻¹ Measured Resolution: 2.09 cm⁻¹

Throughput Test

Throughput minimum requirement: 2700 Throughput measured: 3065

Photometric Consistency Test



1. Peak specified:	620.9 cm ⁻¹	1. Peak measured:	621.0 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	8.940 %
2. Peak specified:	1001.4 cm ⁻¹	2. Peak measured:	1001.4 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	0.000 %
3. Peak specified:	1602.3 cm ⁻¹	3. Peak measured:	1602.6 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	5.117 %
4. Peak specified:	Not determined.	4. Peak measured:	Not determined.
Max. Deviation Limit:	---	Measured Deviation:	---
5. Peak specified:	Not determined.	5. Peak measured:	Not determined.
Max. Deviation Limit:	---	Measured Deviation:	---

Overall Test Result = PASS



Date and Signature

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