

QQ Protocol



Company: Moscow State University of
Operator: Default
Instrument Type: Senterra Microscope 532 nm Grating 400
Optics Configuration: Microscope with: 532 nm, Grating 400, 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 19:23:42
Test Date/Time: 2012/01/18 19:23:42
Test Spectra Path: C:\Program Files\OPUS_65\Validation\Data\20120118\192342
Comment:

Wavelength Accuracy Test

1. Peak specified:	391.5 cm ⁻¹	1. Peak measured:	391.5 cm ⁻¹
Max. Deviation Limit:	3.00 cm ⁻¹	Measured Deviation:	0.04 cm ⁻¹
2. Peak specified:	857.9 cm ⁻¹	2. Peak measured:	857.9 cm ⁻¹
Max. Deviation Limit:	3.00 cm ⁻¹	Measured Deviation:	0.02 cm ⁻¹
3. Peak specified:	1168.5 cm ⁻¹	3. Peak measured:	1168.5 cm ⁻¹
Max. Deviation Limit:	3.00 cm ⁻¹	Measured Deviation:	0.02 cm ⁻¹
4. Peak specified:	1323.9 cm ⁻¹	4. Peak measured:	1324.7 cm ⁻¹
Max. Deviation Limit:	3.00 cm ⁻¹	Measured Deviation:	0.84 cm ⁻¹
5. Peak specified:	1648.4 cm ⁻¹	5. Peak measured:	1649.1 cm ⁻¹
Max. Deviation Limit:	3.00 cm ⁻¹	Measured Deviation:	0.70 cm ⁻¹
6. Peak specified:	2931.1 cm ⁻¹	6. Peak measured:	---
Max. Deviation Limit:	3.00 cm ⁻¹	Measured Deviation:	---

Throughput Test

Throughput minimum requirement: 9000 Throughput measured: 27221

Photometric Consistency Test

1. Peak specified:	620.9 cm ⁻¹	1. Peak measured:	620.4 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	2.637 %
2. Peak specified:	1001.4 cm ⁻¹	2. Peak measured:	1000.7 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	0.000 %
3. Peak specified:	1602.3 cm ⁻¹	3. Peak measured:	1601.8 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	0.009 %
4. Peak specified:	2904.5 cm ⁻¹	4. Peak measured:	2906.2 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	2.665 %
5. Peak specified:	3054.3 cm ⁻¹	5. Peak measured:	3055.8 cm ⁻¹
Max. Deviation Limit:	10.000 %	Measured Deviation:	2.061 %

Dark Noise Test



Dark Noise Limit:

100

Dark Noise measured:

17

Overall Test Result = PASS



Date and Signature

Date and Signature