

SEBASTIAN SCIENTIFIC CORPORATION

FTIR

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE:

QRP ISO 5 (Class 100) Latex Fingercots, Size: Medium, Yellow F/C Lot#: 05091601
File: 05-570Q

P.O#: 2329-A

DATE SAMPLE RECEIVED: 12-02-05

DATE TESTED: 2- 15-06

REPORT DATE: 03-30-06

RESULTS

The FTIR spectrum of the sample rinse residue with Hexane (outside surface of the finger cot) did not show characteristic silicone absorption bands in the 750 – 1300 cm^{-1} region (see attached spectrum).

Note: The characteristic major bands for Silicone are the sharp intense band at 1260 cm^{-1} region for the $-\text{CH}_3$ symmetric deformation of the Si-CH_3 , accompanied by one or more equally intense bands in the 870-750 cm^{-1} region from the $-\text{CH}_3$ rocking and Si-C stretching vibrations. In addition, Silicones have a very strong band in the 1130 to 1000 cm^{-1} region due to the asymmetric Si-O-Si stretching vibration, and sometimes may split into two or more bands depending on the nature of the Silicone.

Sebastian S. Plamthottam

Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY

SEBASTIAN SCIENTIFIC CORPORATION

LIQUIDBORNE PARTICLE COUNTS (IEST-RP-CC-005.3)

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE:

QRP ISO 5 (Class 100) Latex Fingercots, Size: Medium, Yellow F/C Lot#: 05091601
File: 05-570Q

P.O#: 2329-A

Number of samples tested: 3 sets
Number of measurements/sample: 3

DATE SAMPLE RECEIVED: 12-02-05

Finger cot weight = 0.47 g.
Surface Area = 78.6 cm²
Surface Area (10 cots) = 786 cm²

DATE TESTED: 12-20-06

REPORT DATE: 03-30-06

SIZE (µm)	PARTICLES/mL	PARTICLES/25 mL	PARTICLES/750 mL	PARTICLES/cm ²
0.5-1	12034.67	300866.67	9026000.00	11483.46
1-2	485.89	12147.33	364420.00	463.64
2-5	473.24	11830.92	354927.50	451.56
5-10	48.45	1211.33	36340.00	46.23
10-20	2.56	64.11	1923.25	2.45
>20	0.06	1.44	43.25	0.06
Total				12447

Blank ($\geq 0.5 \mu\text{m}$) = 2 particle/mL

Sebastian S. Plamthottam
Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY

SEBASTIAN SCIENTIFIC CORPORATION

ION EXTRACTABLES

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE:

QRP ISO 5 (Class 100) Latex Fingercots, Size: Medium, Yellow F/C Lot#: 05091601
File: 05-570Q

P.O#: 2329-A

DATE SAMPLE RECEIVED: 12-02-05

DATE TESTED: 03-30-06

REPORT DATE: 03-30-06

Finger cot weight = 0.47 g.
Surface Area = 78.6 cm²

ANIONS	µg/cm ²	µg/g (ppm)
BROMIDE	<0.025	<4.26
CHLORIDE	1.636	273.97
FLUORIDE	<0.038	<6.39
NITRATE	<0.025	<4.26
NITRITE	<0.013	<2.13
PHOSPHATE	<0.051	<8.52
SULFATE	0.131	21.99

'<' indicates method detection limit (MDL) or not detected

Sebastian S. Plamthottam
Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY

SEBASTIAN SCIENTIFIC CORPORATION

FTIR

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE:

QRP Fingercots, Size: Large, Pink, Lot#: 05091602, File: 05-572Q

P.O#: 2329-A

DATE SAMPLE RECEIVED: 12-02-05

DATE TESTED: 2- 15-06

REPORT DATE: 03-30-06

RESULTS

The FTIR spectrum of the sample rinse residue with Hexane (outside surface of the finger cots) did not show characteristic silicone absorption bands in the $750 - 1300 \text{ cm}^{-1}$ region (see attached spectrum).

Note: The characteristic major bands for Silicone are the sharp intense band at 1260 cm^{-1} region for the $-\text{CH}_3$ symmetric deformation of the Si-CH_3 , accompanied by one or more equally intense bands in the $870-750 \text{ cm}^{-1}$ region from the $-\text{CH}_3$ rocking and Si-C stretching vibrations. In addition, Silicones have a very strong band in the 1130 to 1000 cm^{-1} region due to the asymmetric Si-O-Si stretching vibration, and sometimes may split into two or more bands depending on the nature of the Silicone.

Sebastian S. Plamthottam

Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY

SEBASTIAN SCIENTIFIC CORPORATION

LIQUIDBORNE PARTICLE COUNTS (IEST-RP-CC-005.3)

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE:

QRP Fingercots, Size: Large, Pink, Lot#: 05091602, File: 05-572Q

P.O#: 2329-A

Number of samples tested: 3 sets
Number of measurements/sample: 3

DATE SAMPLE RECEIVED: 12-02-05

Finger cot weight = 0.55 g.
Surface Area = 81.7 cm²
Surface Area (10 cots) = 817 cm²

DATE TESTED: 12-20-06

REPORT DATE: 03-30-06

SIZE (µm)	PARTICLES/mL	PARTICLES/25 mL	PARTICLES/750 mL	PARTICLES/cm ²
0.5-1	61246.33	1531158.33	45934750.00	56223.68
1-2	2662.13	66553.33	1996600.00	2443.82
2-5	1627.50	40687.50	1220625.00	1494.03
5-10	83.85	2096.23	62886.75	76.97
10-20	2.01	50.23	1506.75	1.84
>20	0.06	1.44	43.25	0.05
Total				60240

Blank ($\geq 0.5 \mu\text{m}$) = 2 particle/mL

Sebastian S. Plamthottam
Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY

SEBASTIAN SCIENTIFIC CORPORATION

ION EXTRACTABLES

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE:

QRP Fingercots, Size: Large, Pink, Lot#: 05091602, File: 05-572Q

P.O#: 2329-A

DATE SAMPLE RECEIVED: 12-02-05

DATE TESTED: 03-30-06

REPORT DATE: 03-30-06

Finger cot weight = 0.55 g.
Surface Area = 81.7 cm²

CATIONS	µg/cm ²	µg/g (ppm)
AMMONIUM	0.150	22.37
CALCIUM	0.671	100.07
LITHIUM	<0.002	<0.37
MAGNESIUM	0.041	6.12
POTASSIUM	<0.049	<7.30
SODIUM	1.086	161.98

'<' indicates method detection limit (MDL) or not detected

Sebastian S. Plamthottam
Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY

SEBASTIAN SCIENTIFIC CORPORATION

FTIR

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE:

QRP Fingercots, Size: Large, Black, Lot#: 05092702, File: 05-571Q

P.O#: 2329-A

DATE SAMPLE RECEIVED: 12-02-05

DATE TESTED: 2- 15-06

REPORT DATE: 03-30-06

RESULTS

The FTIR spectrum of the sample rinse residue with Hexane (outside surface of the finger cot) did not show characteristic silicone absorption bands in the $750 - 1300 \text{ cm}^{-1}$ region (see attached spectrum).

Note: The characteristic major bands for Silicone are the sharp intense band at 1260 cm^{-1} region for the $-\text{CH}_3$ symmetric deformation of the Si-CH_3 , accompanied by one or more equally intense bands in the $870\text{-}750 \text{ cm}^{-1}$ region from the $-\text{CH}_3$ rocking and Si-C stretching vibrations. In addition, Silicones have a very strong band in the 1130 to 1000 cm^{-1} region due to the asymmetric Si-O-Si stretching vibration, and sometimes may split into two or more bands depending on the nature of the Silicone.

Sebastian S. Plamthottam
Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY

SEBASTIAN SCIENTIFIC CORPORATION

LIQUIDBORNE PARTICLE COUNTS (IEST-RP-CC-005.3)

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE: QRP Fingercots, Size: Large, Black, Lot#: 05092702, File: 05-571Q

P.O#: 2329-A

Number of samples tested: 3 sets
Number of measurements/sample: 3

DATE SAMPLE RECEIVED: 12-02-05

DATE TESTED: 12-20-06

Finger cot weight = 0.53 g.
Surface Area = 76.8 cm²
Surface Area (10 cots) = 768 cm²

REPORT DATE: 03-30-06

SIZE (µm)	PARTICLES/mL	PARTICLES/25 mL	PARTICLES/750 mL	PARTICLES/cm ²
0.5-1	97071.67	2426791.67	72803750.00	94796.55
1-2	3203.30	80082.50	2402475.00	3128.22
2-5	2328.00	58200.00	1746000.00	2273.44
5-10	157.11	3927.86	117835.75	153.43
10-20	6.06	151.55	4546.50	5.92
>20	0.67	16.78	503.25	0.66
Total				100358

Blank ($\geq 0.5 \mu\text{m}$) = 2 particle/mL

Sebastian S. Plamthottam

Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY

SEBASTIAN SCIENTIFIC CORPORATION

ION EXTRACTABLES

To:

Mr. Duncan Casselman
QRP Inc.,
3925 N. Runway Drive
Tucson, AZ 85705

Copy:

Mr. Fred Buchanan

SAMPLE: QRP Fingercots, Size: Large, Black, Lot#: 05092702, File: 05-571Q

P.O#: 2329-A

DATE SAMPLE RECEIVED: 12-02-05

DATE TESTED: 03-30-06

REPORT DATE: 03-30-06

Finger cot weight = 0.53 g.
Surface Area = 76.8 cm²

CATIONS	µg/cm ²	µg/g (ppm)
AMMONIUM	0.060	8.67
CALCIUM	0.232	33.64
LITHIUM	<0.003	<0.38
MAGNESIUM	<0.039	<5.65
POTASSIUM	<0.052	<7.54
SODIUM	0.592	85.66

'<' indicates method detection limit (MDL) or not detected

Sebastian S. Plamthottam

Sebastian S. Plamthottam

1202 NORTH MONTE VISTA AVE . STE #7 . UPLAND, CA 91786 . (909) 946-8896 . FAX (909) 946-0625

ELECTRONIC COPY