Malvern 3000 Liquid Analysis (v.1)

Created by: jkassel
Last edited: 12/2/2013 9:24:45 AM

Information

Client	Particle Technology Labs	**Sample Name**	Average of 'QAS3001B'
Test Method	Per Malvern Initiative Protocol	**Sample ID**	Bottle 102588
Chemist	JK	**PTL ID**	SRM# 1781
SOP File Name	QAS3001B (typical).msop	**Measurement Date Time**	1/27/2014 7:14:40 PM
Carrier	DI H20	**Instrument Type**	Mastersizer3000
Notes	Exp. 2019/01/09		

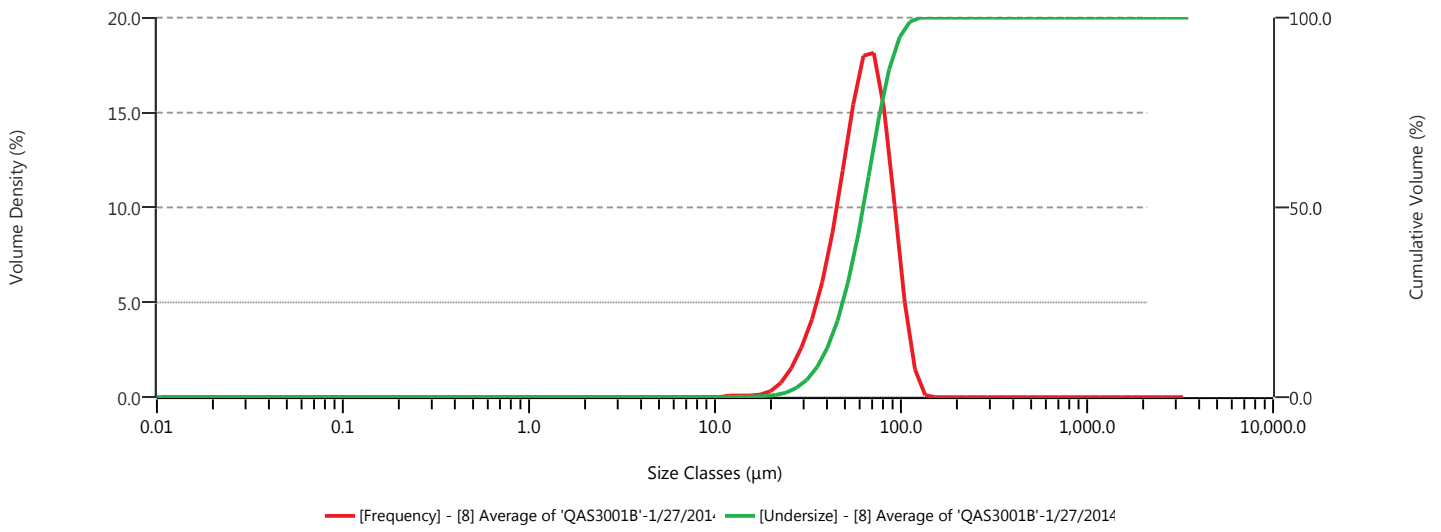
Measurement Details

Particle Name	Glass Beads (typical)	**Dispersant Name**	Water
Particle Refractive Index	1.520	**Dispersant Refractive Index**	1.330
Particle Absorption Index	0.000	**Analysis Model**	Narrow Modes
Laser Power	79.90 %	**Analysis Sensitivity**	Enhanced
Accessory Name	Hydro MV	**Accessory Serial No.**	MAL1090246
Laser Obscuration	14.16 %	**Instrument Serial No.**	MAL1087829
Virtual Lens Range		**Software Version**	2.20.1308.151
Is Particle Fraunhofer?	No	**Are particles non-spherical?**	No

Analysis Results

Dv (10)	37.2 µm	**Span**	0.864
Dv (50)	62.4 µm	**D [4,3]**	63.4 µm
Dv (90)	91.2 µm	**Weighted Residual**	0.32 %

Frequency (compatible) and Undersize



Measurement Details

File Path	R:\Malvern 3000\Measurement Data\M3000 Quarterly Annual PVs\PV2014-01-27.mmes		
Record Number	8	**Average Result Records**	5, 6, 7
Operator Name	jkassel	**Original Record Number**	8

Measurement Details

Chemist Signature	**Reviewer Signature**

Measurement Details

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Instrument Type	Mastersizer3000	**Instrument Serial No.**	MAL1087829
Virtual Lens Range		**Software Version**	2.20.1308.151
Weighted Residual	0.32 %	**Are particles non-spherical?**	No
Is Particle Fraunhofer?	No	**Original Record Number**	8

Size (µm)	% Volume Under	Size (µm)	% Volume Under	Size (µm)	% Volume Under	Size (µm)	% Volume Under	Size (µm)	% Volume Under	Size (µm)	% Volume Under
0.0100	0.00	0.0876	0.00	0.767	0.00	6.72	0.00	58.9	43.01	516	100.00
0.0114	0.00	0.0995	0.00	0.872	0.00	7.64	0.00	66.9	58.19	586	100.00
0.0129	0.00	0.113	0.00	0.991	0.00	8.68	0.00	76.0	73.54	666	100.00
0.0147	0.00	0.128	0.00	1.13	0.00	9.86	0.00	86.4	86.40	756	100.00
0.0167	0.00	0.146	0.00	1.28	0.00	11.2	0.00	98.1	94.89	859	100.00
0.0189	0.00	0.166	0.00	1.45	0.00	12.7	0.07	111	98.93	976	100.00
0.0215	0.00	0.188	0.00	1.65	0.00	14.5	0.15	127	100.00	1110	100.00
0.0244	0.00	0.214	0.00	1.88	0.00	16.4	0.22	144	100.00	1260	100.00
0.0278	0.00	0.243	0.00	2.13	0.00	18.7	0.32	163	100.00	1430	100.00
0.0315	0.00	0.276	0.00	2.42	0.00	21.2	0.58	186	100.00	1630	100.00
0.0358	0.00	0.314	0.00	2.75	0.00	24.1	1.20	211	100.00	1850	100.00
0.0407	0.00	0.357	0.00	3.12	0.00	27.4	2.44	240	100.00	2100	100.00
0.0463	0.00	0.405	0.00	3.55	0.00	31.1	4.59	272	100.00	2390	100.00
0.0526	0.00	0.460	0.00	4.03	0.00	35.3	7.97	310	100.00	2710	100.00
0.0597	0.00	0.523	0.00	4.58	0.00	40.1	12.97	352	100.00	3080	100.00
0.0679	0.00	0.594	0.00	5.21	0.00	45.6	20.14	400	100.00	3500	100.00
0.0771	0.00	0.675	0.00	5.92	0.00	51.8	30.08	454	100.00		

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Operator Name	jkassel		

Measurement Details

Chemist Signature	**Reviewer Signature**

Annotation

Particle Technology Labs 555 Rogers Street Downers Grove, IL 60515

Record Number	Sample Name	Signature State	Signatory	Signature Date
8	Average of 'QAS3001B'	Unsigned		

Malvern