



Brookhaven Instruments Corp.
ZetaPals Particle Sizing Software Ver. 3.86

Date: Aug 4, 2017

Time: 12:16:56

Batch: 0

Sample ID **AgNPs-3W-cost-01-08-17-centr- (Combined)**

Operator ID **Luca**

Notes **04-08-2017**

Measurement Parameters:

Temperature = 25.0 deg. C
Liquid = Water
Viscosity = 0.890 cP
Ref.Index Fluid = 1.330
Angle = 90.00
Wavelength = 660.0 nm
Baseline = Auto (Slope Analysis)

Runs Completed = 5
Run Duration = 00:01:00
Total Elapsed Time = 00:05:00
Average Count Rate = 274.3 kcps
Ref.Index Real = 1.000
Ref.Index Imag = 0.000
Dust Filter = Off

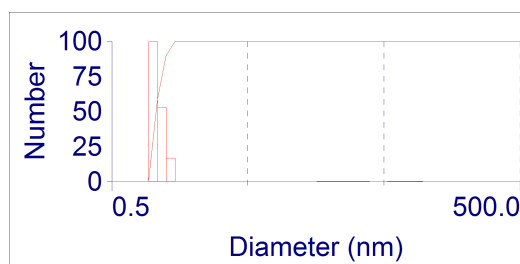
AgNPs-3W-cost-01-08-17-centr- (Combined)

Effective Diameter: 30.1 nm

Polydispersity: 0.139

Baseline Index: 7.9

Elapsed Time: 00:05:00



Multimodal Size Distribution

Run	Eff. Diam. (nm)	Half Width (nm)	Polydispersity	Baseline Index
1	29.1	11.1	0.145	7.5
2	30.0	9.7	0.105	7.1
3	29.9	12.3	0.168	9.0
4	30.6	11.5	0.140	7.8
5	30.9	12.0	0.150	8.3
Mean	30.1	11.3	0.142	7.9
Std. Error	0.3	0.4	0.010	0.3
Combined	30.1	11.2	0.139	7.9



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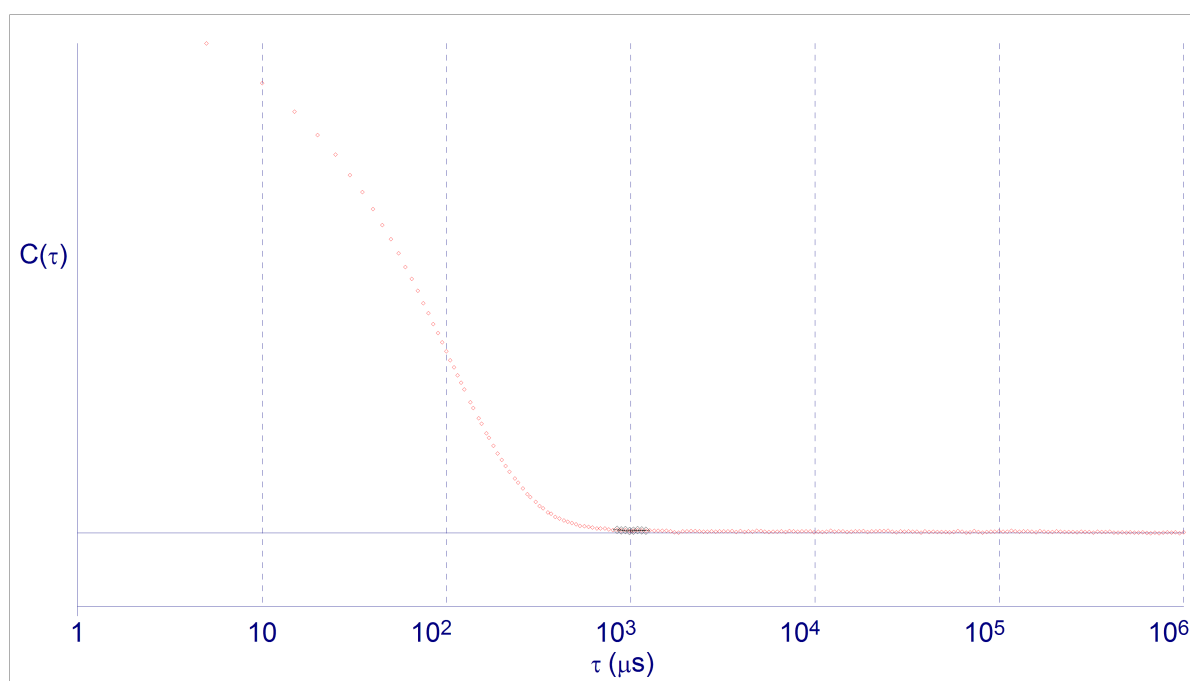
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Correlation Function



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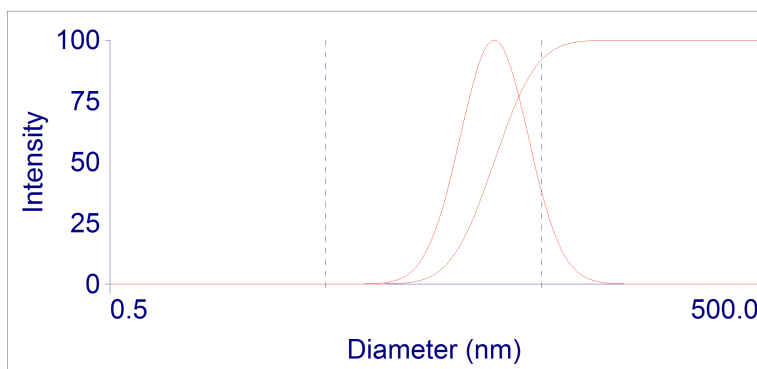
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Elapsed Time 00:05:00
Eff. Diam. 30.1 nm
Mean Diam. 32.1 nm
Polydispersity 0.139
GSD 1.435



Lognormal Size Distribution

r(nm)	G(r)	C(r)	d(nm)	G(d)	C(d)	d(nm)	G(d)	C(d)
16.6	26	5	27.5	97	40	38.4	80	75
18.9	44	10	28.8	99	45	40.8	70	80
20.7	58	15	30.1	100	50	43.8	58	85
22.2	70	20	31.5	99	55	47.8	44	90
23.6	80	25	33.0	97	60	54.6	26	95
24.9	87	30	34.6	93	65			
26.2	93	35	36.4	87	70			



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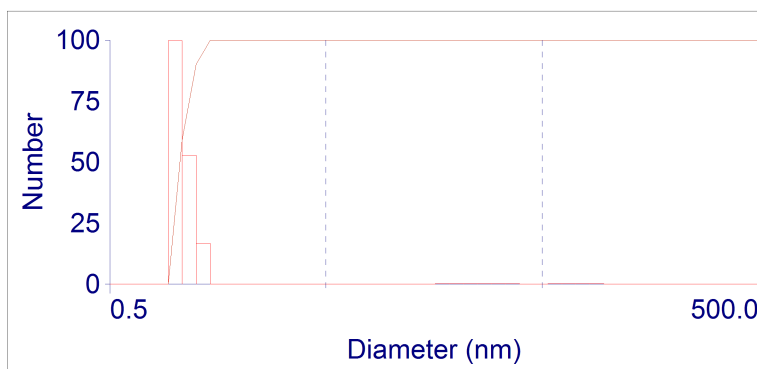
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Elapsed Time 00:05:00
Mean Diam. 1.1 nm
Rel. Var. 0.011
Skew 2.134



Multimodal Size Distribution

d(nm)	G(d)	C(d)	d(nm)	G(d)	C(d)	d(nm)	G(d)	C(d)
1.0	100	59	5.2	0	100	26.9	0	100
1.2	53	90	6.0	0	100	31.3	0	100
1.3	17	100	7.0	0	100	36.4	0	100
1.6	0	100	8.1	0	100	42.2	0	100
1.8	0	100	9.4	0	100	49.0	0	100
2.1	0	100	11.0	0	100	57.0	0	100
2.5	0	100	12.7	0	100	66.2	0	100
2.9	0	100	14.8	0	100	76.9	0	100
3.3	0	100	17.2	0	100	89.3	0	100
3.8	0	100	20.0	0	100	103.7	0	100
4.5	0	100	23.2	0	100	120.4	0	100



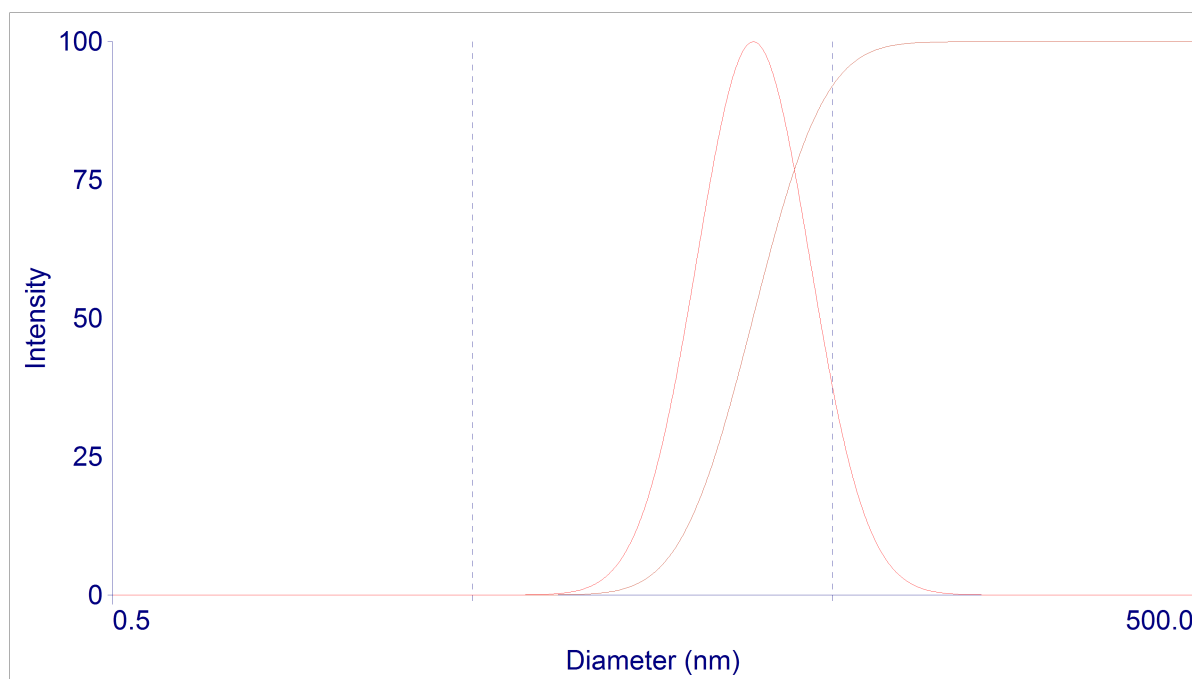
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Lognormal Distribution



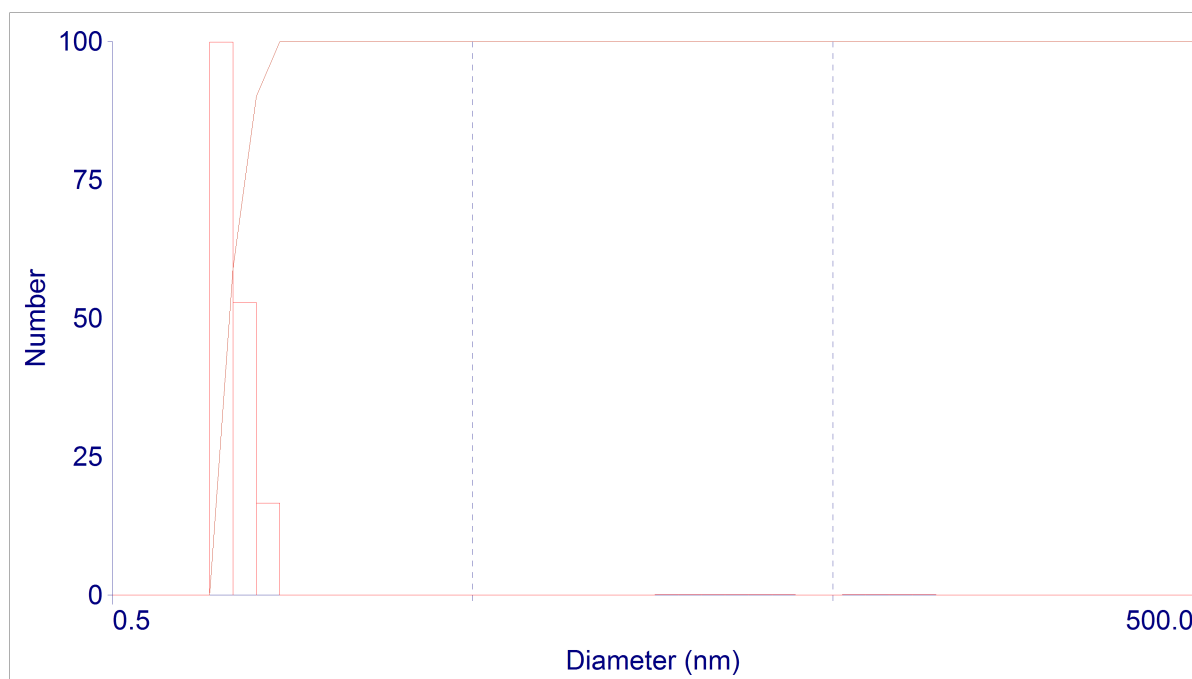
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