

SZ-100

019.C.PSA.VII.2023 R1.nsz Measurement Results

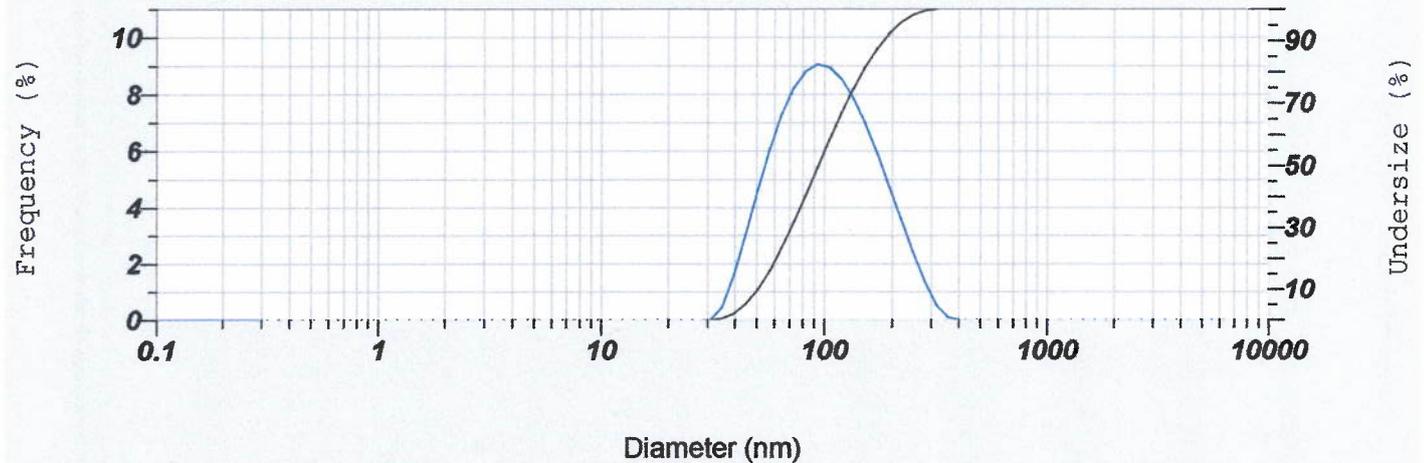
Date : Tuesday, July 18, 2023 2:13:32 PM
 Measurement Type : Particle Size
 Sample Name : AgNPs Daun Bayam Duri
 Scattering Angle : 90
 Temperature of the Holder : 24.9 °C
 Dispersion Medium Viscosity : 0.897 mPa·s
 Transmission Intensity before Meas. : 15293
 Distribution Form : Standard
 Distribution Form(Dispersity) : Monodisperse
 Representation of Result : Scattering Light Intensity
 Count Rate : 1112 kCPS

Calculation Results

Peak No.	S.P.Area Ratio	Mean	S. D.	Mode
1	1.00	107.0 nm	53.1 nm	87.6 nm
2	--	-- nm	-- nm	-- nm
3	--	-- nm	-- nm	-- nm
Total	1.00	107.0 nm	53.1 nm	87.6 nm

Cumulant Operations

Z-Average : 88.8 nm
 PI : 0.354



No.	Diameter	Frequency	Cumulation												
1	0.34	0.000	0.000	22	4.40	0.000	0.000	43	57.09	6.060	15.776	64	740.89	0.000	100.000
2	0.38	0.000	0.000	23	4.97	0.000	0.000	44	64.50	7.286	23.062	65	837.07	0.000	100.000
3	0.43	0.000	0.000	24	5.61	0.000	0.000	45	72.87	8.214	31.276	66	945.74	0.000	100.000
4	0.49	0.000	0.000	25	6.34	0.000	0.000	46	82.33	8.803	40.078	67	1068.52	0.000	100.000
5	0.55	0.000	0.000	26	7.17	0.000	0.000	47	93.02	9.039	49.117	68	1207.24	0.000	100.000
6	0.62	0.000	0.000	27	8.10	0.000	0.000	48	105.10	8.933	58.050	69	1363.97	0.000	100.000
7	0.70	0.000	0.000	28	9.15	0.000	0.000	49	118.74	8.517	66.567	70	1541.04	0.000	100.000
8	0.80	0.000	0.000	29	10.34	0.000	0.000	50	134.16	7.835	74.401	71	1741.10	0.000	100.000
9	0.90	0.000	0.000	30	11.68	0.000	0.000	51	151.57	6.941	81.342	72	1967.14	0.000	100.000
10	1.02	0.000	0.000	31	13.20	0.000	0.000	52	171.25	5.894	87.236	73	2222.51	0.000	100.000
11	1.15	0.000	0.000	32	14.91	0.000	0.000	53	193.48	4.753	91.989	74	2511.05	0.000	100.000
12	1.30	0.000	0.000	33	16.84	0.000	0.000	54	218.60	3.577	95.567	75	2837.04	0.000	100.000
13	1.47	0.000	0.000	34	19.03	0.000	0.000	55	246.98	2.428	97.994	76	3205.35	0.000	100.000
14	1.66	0.000	0.000	35	21.50	0.000	0.000	56	279.04	1.380	99.374	77	3621.48	0.000	100.000
15	1.87	0.000	0.000	36	24.29	0.000	0.000	57	315.27	0.543	99.917	78	4091.63	0.000	100.000
16	2.11	0.000	0.000	37	27.45	0.000	0.000	58	356.20	0.083	100.000	79	4622.81	0.000	100.000
17	2.39	0.000	0.000	38	31.01	0.000	0.000	59	402.44	0.000	100.000	80	5222.96	0.000	100.000
18	2.70	0.000	0.000	39	35.03	0.468	0.468	60	454.69	0.000	100.000	81	5901.02	0.000	100.000
19	3.05	0.000	0.000	40	39.58	1.581	2.048	61	513.71	0.000	100.000	82	6667.10	0.000	100.000
20	3.45	0.000	0.000	41	44.72	3.057	5.105	62	580.41	0.000	100.000	83	7532.65	0.000	100.000
21	3.89	0.000	0.000	42	50.53	4.611	9.716	63	655.76	0.000	100.000	84	8510.56	0.000	100.000

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019.C.PSA.VII.2023 R2.nsz

Measurement Results

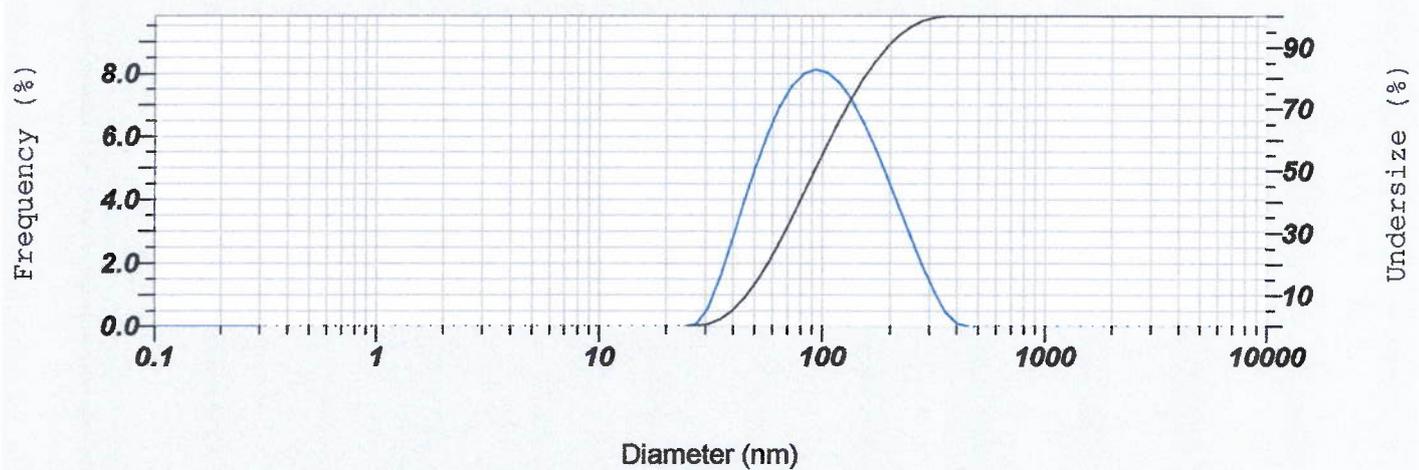
Date : Tuesday, July 18, 2023 2:12:01 PM
 Measurement Type : Particle Size
 Sample Name : AgNPs Daun Bayam Duri
 Scattering Angle : 90
 Temperature of the Holder : 24.8 °C
 Dispersion Medium Viscosity : 0.898 mPa·s
 Transmission Intensity before Meas. : 15293
 Distribution Form : Standard
 Distribution Form(Dispersity) : Monodisperse
 Representation of Result : Scattering Light Intensity
 Count Rate : 1121 kCPS

Calculation Results

Peak No.	S.P.Area Ratio	Mean	S. D.	Mode
1	1.00	108.1 nm	60.2 nm	87.5 nm
2	---	--- nm	--- nm	--- nm
3	---	--- nm	--- nm	--- nm
Total	1.00	108.1 nm	60.2 nm	87.5 nm

Cumulant Operations

Z-Average : 91.3 nm
 PI : 0.247



No.	Diameter	Frequency	Cumulation												
1	0.34	0.000	0.000	22	4.40	0.000	0.000	43	57.09	6.067	19.791	64	740.89	0.000	100.000
2	0.38	0.000	0.000	23	4.97	0.000	0.000	44	64.50	6.931	26.723	65	837.07	0.000	100.000
3	0.43	0.000	0.000	24	5.61	0.000	0.000	45	72.87	7.576	34.299	66	945.74	0.000	100.000
4	0.49	0.000	0.000	25	6.34	0.000	0.000	46	82.33	7.974	42.273	67	1068.52	0.000	100.000
5	0.55	0.000	0.000	26	7.17	0.000	0.000	47	93.02	8.116	50.389	68	1207.24	0.000	100.000
6	0.62	0.000	0.000	27	8.10	0.000	0.000	48	105.10	8.008	58.396	69	1363.97	0.000	100.000
7	0.70	0.000	0.000	28	9.15	0.000	0.000	49	118.74	7.668	66.064	70	1541.04	0.000	100.000
8	0.80	0.000	0.000	29	10.34	0.000	0.000	50	134.16	7.128	73.192	71	1741.10	0.000	100.000
9	0.90	0.000	0.000	30	11.68	0.000	0.000	51	151.57	6.425	79.617	72	1967.14	0.000	100.000
10	1.02	0.000	0.000	31	13.20	0.000	0.000	52	171.25	5.599	85.216	73	2222.51	0.000	100.000
11	1.15	0.000	0.000	32	14.91	0.000	0.000	53	193.48	4.694	89.910	74	2511.05	0.000	100.000
12	1.30	0.000	0.000	33	16.84	0.000	0.000	54	218.60	3.750	93.660	75	2837.04	0.000	100.000
13	1.47	0.000	0.000	34	19.03	0.000	0.000	55	246.98	2.807	96.467	76	3205.35	0.000	100.000
14	1.66	0.000	0.000	35	21.50	0.000	0.000	56	279.04	1.907	98.374	77	3621.48	0.000	100.000
15	1.87	0.000	0.000	36	24.29	0.000	0.000	57	315.27	1.096	99.470	78	4091.63	0.000	100.000
16	2.11	0.000	0.000	37	27.45	0.064	0.064	58	356.20	0.450	99.920	79	4622.81	0.000	100.000
17	2.39	0.000	0.000	38	31.01	0.584	0.647	59	402.44	0.080	100.000	80	5222.96	0.000	100.000
18	2.70	0.000	0.000	39	35.03	1.521	2.169	60	454.69	0.000	100.000	81	5901.02	0.000	100.000
19	3.05	0.000	0.000	40	39.58	2.664	4.833	61	513.71	0.000	100.000	82	6667.10	0.000	100.000
20	3.45	0.000	0.000	41	44.72	3.866	8.699	62	580.41	0.000	100.000	83	7532.65	0.000	100.000
21	3.89	0.000	0.000	42	50.53	5.025	13.724	63	655.76	0.000	100.000	84	8510.56	0.000	100.000

SZ-100

019.C.PSA.VII.2023 R3.nsz

Measurement Results

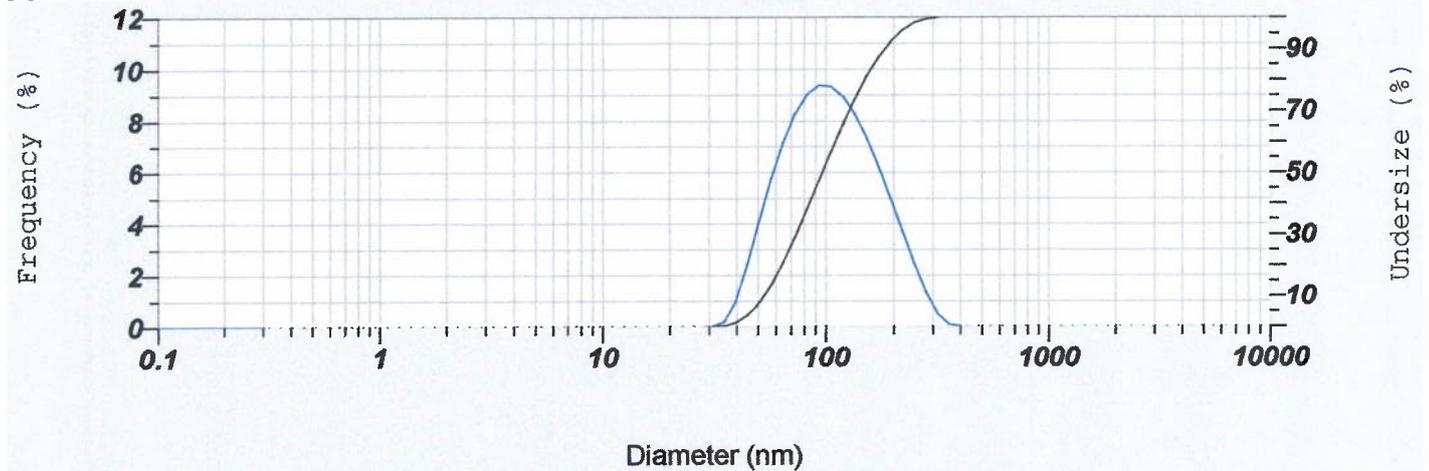
Date : Tuesday, July 18, 2023 2:10:30 PM
 Measurement Type : Particle Size
 Sample Name : AgNPs Daun Bayam Duri
 Scattering Angle : 90
 Temperature of the Holder : 24.8 °C
 Dispersion Medium Viscosity : 0.900 mPa·s
 Transmission Intensity before Meas. : 15293
 Distribution Form : Standard
 Distribution Form(Dispersity) : Monodisperse
 Representation of Result : Scattering Light Intensity
 Count Rate : 1010 kCPS

Calculation Results

Peak No.	S.P.Area Ratio	Mean	S. D.	Mode
1	1.00	108.9 nm	52.0 nm	87.7 nm
2	---	--- nm	--- nm	--- nm
3	---	--- nm	--- nm	--- nm
Total	1.00	108.9 nm	52.0 nm	87.7 nm

Cumulant Operations

Z-Average : 91.7 nm
 PI : 0.302



No.	Diameter	Frequency	Cumulation												
1	0.34	0.000	0.000	22	4.40	0.000	0.000	43	57.09	5.728	13.329	64	740.89	0.000	100.000
2	0.38	0.000	0.000	23	4.97	0.000	0.000	44	64.50	7.152	20.481	65	837.07	0.000	100.000
3	0.43	0.000	0.000	24	5.61	0.000	0.000	45	72.87	8.281	28.742	66	945.74	0.000	100.000
4	0.49	0.000	0.000	25	6.34	0.000	0.000	46	82.33	9.000	37.742	67	1088.52	0.000	100.000
5	0.55	0.000	0.000	26	7.17	0.000	0.000	47	93.02	9.349	47.091	68	1207.24	0.000	100.000
6	0.62	0.000	0.000	27	8.10	0.000	0.000	48	105.10	9.314	56.406	69	1363.97	0.000	100.000
7	0.70	0.000	0.000	28	9.15	0.000	0.000	49	118.74	8.928	65.334	70	1541.04	0.000	100.000
8	0.80	0.000	0.000	29	10.34	0.000	0.000	50	134.16	8.238	73.572	71	1741.10	0.000	100.000
9	0.90	0.000	0.000	30	11.68	0.000	0.000	51	151.57	7.303	80.875	72	1967.14	0.000	100.000
10	1.02	0.000	0.000	31	13.20	0.000	0.000	52	171.25	6.189	87.064	73	2222.51	0.000	100.000
11	1.15	0.000	0.000	32	14.91	0.000	0.000	53	193.48	4.961	92.025	74	2511.05	0.000	100.000
12	1.30	0.000	0.000	33	16.84	0.000	0.000	54	218.60	3.888	95.713	75	2837.04	0.000	100.000
13	1.47	0.000	0.000	34	19.03	0.000	0.000	55	246.98	2.444	98.157	76	3205.35	0.000	100.000
14	1.66	0.000	0.000	35	21.50	0.000	0.000	56	279.04	1.320	99.476	77	3621.48	0.000	100.000
15	1.87	0.000	0.000	36	24.29	0.000	0.000	57	315.27	0.459	99.935	78	4091.63	0.000	100.000
16	2.11	0.000	0.000	37	27.45	0.000	0.000	58	356.20	0.065	100.000	79	4622.81	0.000	100.000
17	2.39	0.000	0.000	38	31.01	0.000	0.000	59	402.44	0.000	100.000	80	5222.96	0.000	100.000
18	2.70	0.000	0.000	39	35.03	0.151	0.151	60	454.69	0.000	100.000	81	5901.02	0.000	100.000
19	3.05	0.000	0.000	40	39.58	0.952	1.103	61	513.71	0.000	100.000	82	6667.10	0.000	100.000
20	3.45	0.000	0.000	41	44.72	2.406	3.510	62	580.41	0.000	100.000	83	7532.65	0.000	100.000
21	3.89	0.000	0.000	42	50.53	4.091	7.601	63	655.76	0.000	100.000	84	8510.56	0.000	100.000

SZ-100

Measurement Results

Zeta 019.C.PSA.VII.2023 R1.nzt

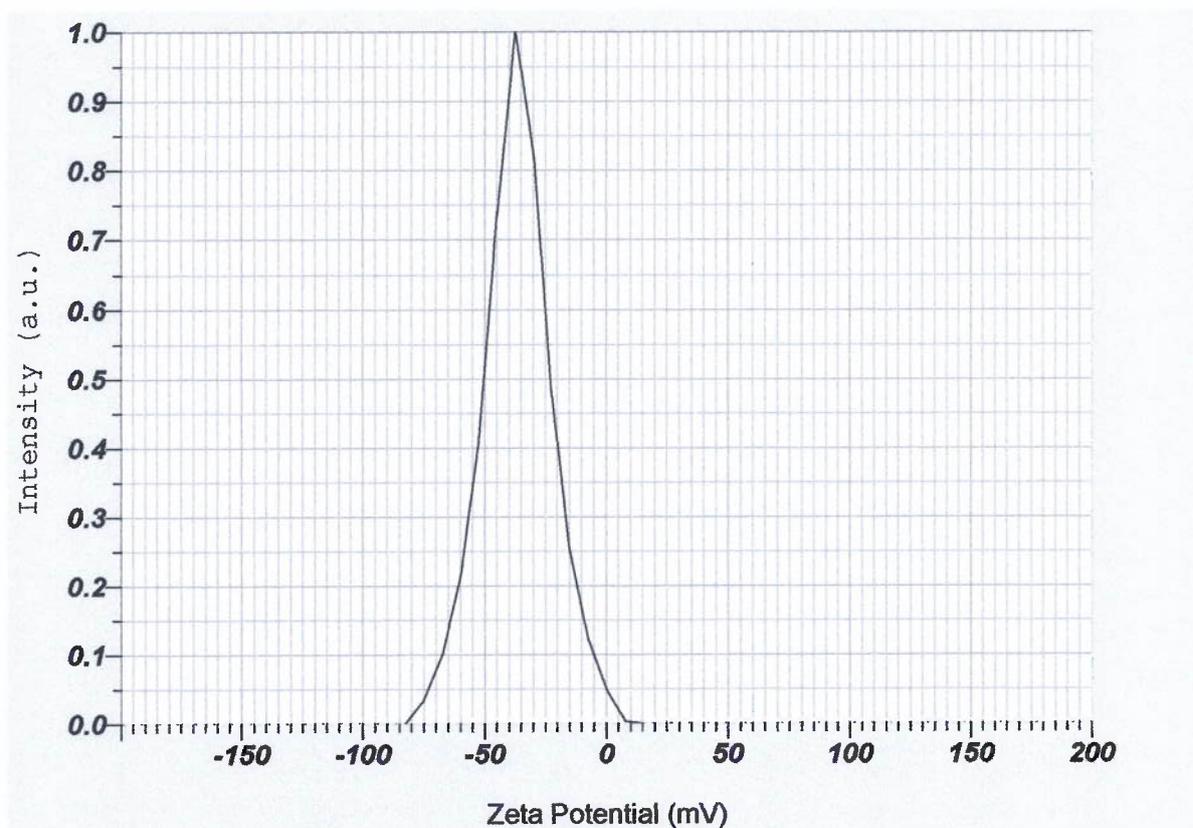
Measurement Results

Date : Saturday, July 22, 2023 12:31:36 PM
 Measurement Type : Zeta Potential
 Sample Name : AgNPs Daun Bayam Duri
 Temperature of the Holder : 24.8 °C
 Dispersion Medium Viscosity : 0.899 mPa·s
 Conductivity : 0.260 mS/cm
 Electrode Voltage : 3.3 V

Calculation Results

Peak No.	Zeta Potential	Electrophoretic Mobility
1	-36.3 mV	-0.000280 cm ² /Vs
2	--- mV	--- cm ² /Vs
3	--- mV	--- cm ² /Vs

Zeta Potential (Mean) : -36.3 mV
 Electrophoretic Mobility Mean : -0.000280 cm²/Vs



SZ-100

Measurement Results

Zeta 019.C.PSA.VII.2023 R2.nzt

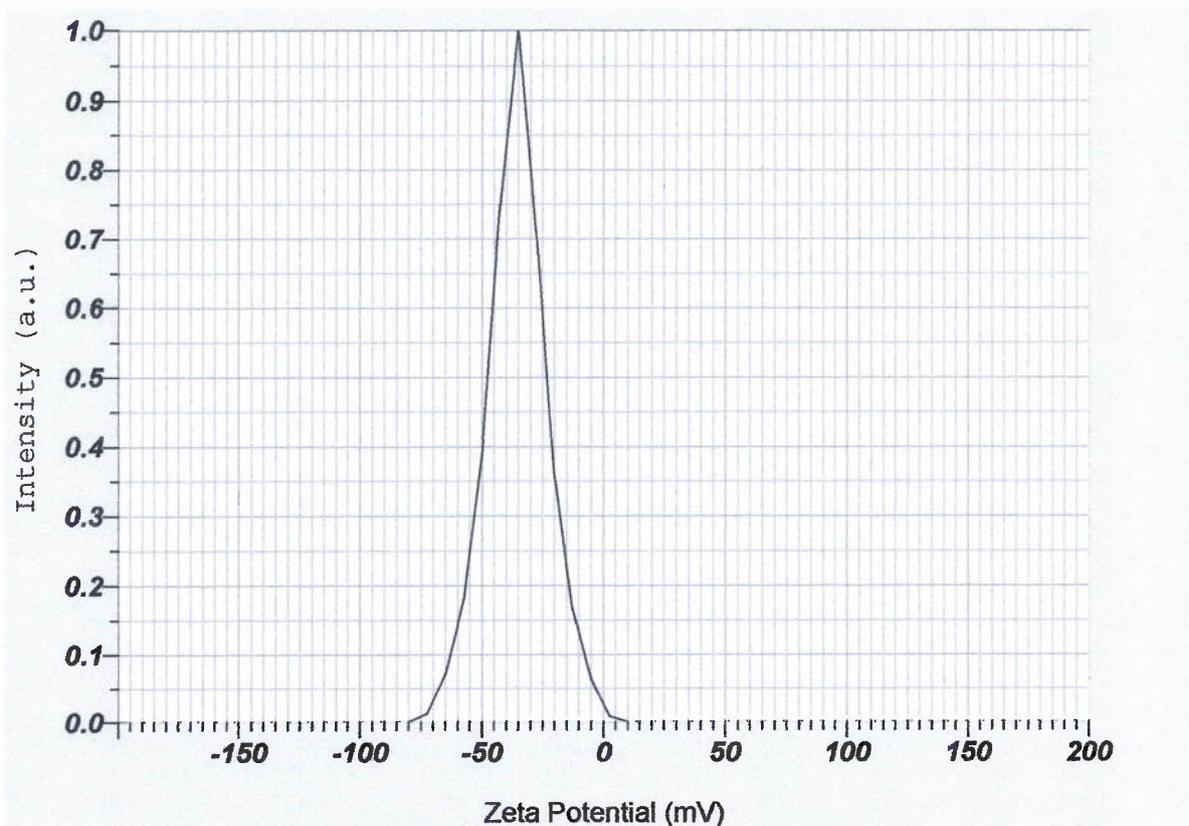
Measurement Results

Date : Saturday, July 22, 2023 12:31:17 PM
 Measurement Type : Zeta Potential
 Sample Name : AgNPs Daun Bayam Duri
 Temperature of the Holder : 24.8 °C
 Dispersion Medium Viscosity : 0.899 mPa·s
 Conductivity : 0.260 mS/cm
 Electrode Voltage : 3.3 V

Calculation Results

Peak No.	Zeta Potential	Electrophoretic Mobility
1	-35.4 mV	-0.000273 cm ² /Vs
2	-- mV	-- cm ² /Vs
3	-- mV	-- cm ² /Vs

Zeta Potential (Mean) : -35.4 mV
 Electrophoretic Mobility Mean : -0.000273 cm²/Vs



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Measurement Results

Zeta 019.C.PSA.VII.2023 R3.nzt

Measurement Results

Date : Saturday, July 22, 2023 12:30:21 PM
 Measurement Type : Zeta Potential
 Sample Name : AgNPs Daun Bayam Duri
 Temperature of the Holder : 25.0 °C
 Dispersion Medium Viscosity : 0.896 mPa·s
 Conductivity : 0.260 mS/cm
 Electrode Voltage : 3.3 V

Calculation Results

Peak No.	Zeta Potential	Electrophoretic Mobility
1	-35.2 mV	-0.000273 cm ² /Vs
2	-- mV	-- cm ² /Vs
3	-- mV	-- cm ² /Vs

Zeta Potential (Mean) : -35.2 mV
 Electrophoretic Mobility Mean : -0.000273 cm²/Vs

