

## LAMPIRAN

### Lampiran 1. Certificate of Analysis



#### HASIL PEMERIKSAAN

Nama Bahan : Pueraria Mirifica Liq  
 Batch : J 0172/15 (A57120103)  
 Ex : St. Herb Cosmetics  
 E.D : 12/2018  
 Grade : Farma

Jenis pemeriksaan	Syarat	Hasil
Pemerian	Cairan, kecoklatan, bau lemah	Sesuai
Kelarutan	Larut dalam air dan etanol	Sesuai
Bobot Jenis	1. 034 – 1.060 gr/ml	1.054 g /ml
pH	5.0	5.0
Indeks bias	1.382 – 1.410	1.405

Kesimpulan : *Memenuhi Syarat*

Cikarang, 16 – 03 – 2015

Pemeriksa

*Putreni*  
 Analis

Penanggung Jawab

*Dra. Tri Hartati*  
 Apoteker  
 SIK.3836/B

HEAD OFFICE : Jl. Cileng Barat No. 78, Jakarta Pusat 10150, Telp. (021) 3522738 (hunting) Fax. : (021) 3522734, E-mail : [btosak@brataco.com](mailto:btosak@brataco.com)  
 BRANCH OFFICE :  
 • JAKARTA : Jl. Mangga Besar V No.5, Jakarta 11180 Telp. (021) 6290113 (hunting 3 lines) Fax. (021) 6262430  
 • BANDUNG : Jl. Boulevard Raya Blok TB2 No. 5, Jakarta 14240 Telp. (021) 4546862-84 Fax. (021) 4532615  
 • BANDUNG : Jl. Kelencong No. 8, Bandung Telp. (022) 6077128, 6030808 Fax. (022) 6031975  
 • SEMARANG : Jl. Terusan Jakarta No. 77G, Bandung Telp. (022) 7101277, 7210308-309 Fax. (022) 7210310  
 • SEMARANG : Jl. Binjen, Klatemo No. 19 Telp. (024) 8415272, 8415969 Fax. (024) 6414980  
 • YOGYA : Jl. Bhayangkara No. 45, Yogya Telp. (0274) 543346, 515390 Fax. (0274) 543349  
 • SURABAYA : Jl. Tidar No. 89, Sumbaya Telp. (031) 5322887, 5325057 Fax. (031) 5310465  
 • MEDAN : Jl. Iskandar Muda no. 40 B, Medan Telp. (061) 4148272, 4523159 Fax. (061) 4525906  
 SUB BRANCH OFFICE : TANGERANG, BOGOR, CIKARANG, CIREBON, TASIKMALAYA, SOLO, PURWOKERTO, TEGAL, MA. LANG, SIDOARJO, DENPASAR, PALEMBANG, MAKASSAR  
 The Nationwide Chemicals and Ingredients Distributor



COA No.: 15122014  
Date: 15/12/2014

**CERTIFICATE OF ANALYSIS AND TEST REPORT (PAGE 1 OF 2)**

**LOT NO. : A57120103 | Mfg. Date: 01/12/2014 | Exp. Date: 01/12/2018**

**SECTION 1: IDENTIFICATION**

Product Name (As listed on label) : Pueraria Mirifica Herbal Extracted in liquid type  
(High Concentration)

**Trade Names With Assigned INCI Name:**

**CTFA File Number:** 5264

**Trade Name:** Pueraria Mirifica Extracted

**Assigned INCI Name(s):** Propylene Glycol Pueraria Mirifica Root Extract

Packaging : Plastic Gallon  
Preservative : NIL  
Manufacturer's Name : SHERB COSMETICS INTERNATIONAL CO., LTD  
Registration address : 456, M.4 Tambol Suangtang, Muang  
Suphanburi 72210, Thailand  
Head office : 807/335 Moo 8, Pumarin Village, Phaholyothin Rd.,  
Kukot, Lumlukka, Pathumthani 12130, Thailand  
Business Telephone : (662) 532-4600  
Fax : (662) 532-4618

**SECTION 2: MICROBIOLOGICAL TESTING**

Analysis	Unit	Result(s)	Detection Limit	Method
Escherichia coli	MPN/mL	< 3.0	Negative	BAM(2002)
Aerobic Plate Count	CFU/mL	< 1	Negative	BAM(2001)
Yeast and Mold	CFU/mL	< 1	Negative	BAM(2001)
Coliforms	CFU/mL	< 1	Negative	BAM(2002)
Clostridium perfringens	in 0.1 mL	Not Detected	Negative	BAM(2001)
Staphylococcus aureus	in 1 mL	Not Detected	Negative	BAM(2001)
Streptococcus spp.	In 10 mL	Not Detected	Negative	TIS
Salmonella spp.	In 25 mL	Not Detected	Negative	BAM(2006)
Pseudomonas aeruginosa	In 25 mL	Not Detected	Negative	BAM(2001)

**SECTION 3: PESTICIDE – ORGANOCHLORINE GROUP**

Analysis	Unit	Result(s)	Detection Limit	Method
Aldrin	mg/kg	Not Detected	0.001	JAQAC(2007)
Alpha-BHC	mg/kg	Not Detected	0.001	JAQAC(2007)
Beta-BHC	mg/kg	Not Detected	0.001	JAQAC(2007)
Chlordane	mg/kg	Not Detected	0.001	JAQAC(2007)
Delta-BHC	mg/kg	Not Detected	0.001	JAQAC(2007)
Dieldrin	mg/kg	Not Detected	0.001	JAQAC(2007)
Endosulfan	mg/kg	Not Detected	0.001	JAQAC(2007)
Endosulfan I	mg/kg	Not Detected	0.001	JAQAC(2007)
Endosulfan II	mg/kg	Not Detected	0.001	JAQAC(2007)
Endosulfansulfate	mg/kg	Not Detected	0.001	JAQAC(2007)
Endrin	mg/kg	Not Detected	0.001	JAQAC(2007)
Gamma-BHC	mg/kg	Not Detected	0.001	JAQAC(2007)
Hepatachlor	mg/kg	Not Detected	0.001	JAQAC(2007)
Hepatachlor-Epoxide	mg/kg	Not Detected	0.001	JAQAC(2007)
o,p'-DDD	mg/kg	Not Detected	0.001	JAQAC(2007)
o,p'-DDE	mg/kg	Not Detected	0.001	JAQAC(2007)
o,p'-DDT	mg/kg	Not Detected	0.001	JAQAC(2007)

St. herb Cosmetics International Co., Ltd.  
807/335 Moo 8, Pumarin Village, Phaholyothin Rd.,  
Kukot, Lumlukka, Pathumthani 12130, Thailand  
Tel: (662) 532-4600 Fax: (662) 532-4618

CERTIFICATE OF ANALYSIS AND TEST REPORT (PAGE 2 OF 2)

p,p'-DDD	mg/kg	Not Detected	0.001	JAOAC(2007)
p,p'-DDE	mg/kg	Not Detected	0.001	JAOAC(2007)
p,p'-DDT	mg/kg	Not Detected	0.001	JAOAC(2007)
Dicofol	mg/kg	Not Detected	0.001	JAOAC(2007)
Endrin aldehyde	mg/kg	Not Detected	0.001	JAOAC(2007)
Methoxychlor	mg/kg	Not Detected	0.001	JAOAC(2007)
DDT	mg/kg	Not Detected	0.001	JAOAC(2007)
Lindane	mg/kg	Not Detected	0.001	JAOAC(2007)
Delta-BHC	mg/kg	Not Detected	0.001	JAOAC(2007)

SECTION 4: METALS TESTING

Analysis	Units	Detection Limit	Result (s)	Method
Mercury	ppm	0.0002	< 0.005	US EPA
Arsenic	ppm	0.002	Not Detected	AOAC(2005)
Cadmium	ppm	0.007	Not Detected	AOAC(2005)
Copper	ppm	0.08	< 0.35	AOAC(2005)
Lead	ppm	0.03	< 0.10	AOAC(2005)
Zinc	ppm	0.08	0.73	AOAC(2005)
Magnesium	ppm	1.0	45	AOAC(2005)

SECTION 5: CHROMENE, ISOFLAVONOID DERIVATIVES --- HPLC

Analysis	Units	Result(s)	Method
Daidzin	mg/100g	8.01	HPLC
Daidzein	mg/100g	1.12	HPLC
Genistin	mg/100g	3.12	HPLC
Genistein	mg/100g	4.58	HPLC
Puerarin	mg/100g	63.12	HPLC
Miroestrol	mg/100g	76.20	HPLC

All information provided above concerning our product are based upon test and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his or her own use of this product.

Warren J.

(Warren J.)  
 Quality Assurance Supervisor



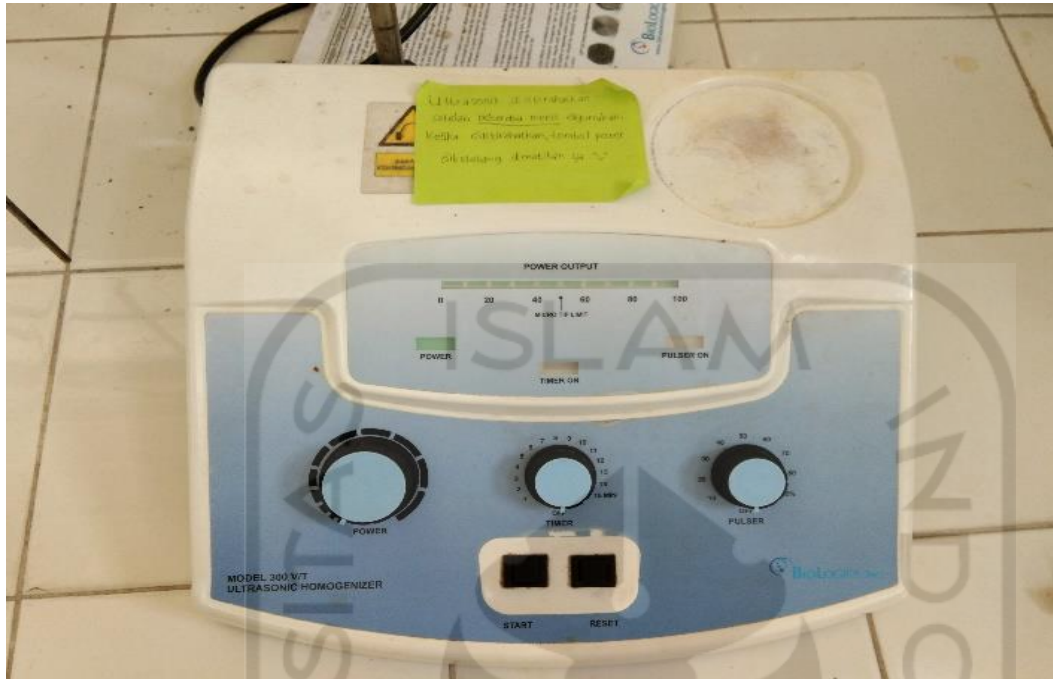
## Lampiran 2. Hasil organoleptis oleh responden

Nama	Formula	Skor					
		Warna		Bentuk		Bau	
		Jernih	Keruh	Cair	Kental	Tidak Berbau	Berbau
Dwi Aswinita R	a	2	-	2	-	-	0
	b	2	-	2	-	2	-
	c	2	-	2	-	-	0
Nanda Prasetya N	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	2	-
Ulinni'mah Dwi C	a	2	-	2	-	2	-
	b	2	-	2	-	2	-
	c	2	-	2	-	2	-
Nabila Amiqa D	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	-	0
Asti Laila M	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	-	0
Autsan Dwi B	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	-	0
Della Ayu N.S	a	2	-	2	-	2	-
	b	2	-	2	-	2	-
	c	2	-	2	-	2	-
Aldia Dwi Karina N	a	2	-	2	-	-	0
	b	2	-	2	-	2	-
	c	2	-	2	-	2	-
Gita Dwi Arka	a	2	-	2	-	-	0
	b	2	-	2	-	2	-
	c	2	-	2	-	-	0
Shofiana	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	2	-
Indy	a	2	-	2	-	-	0
	b	2	-	2	-	2	-
	c	2	-	2	-	-	0
Devita .P.I	a	2	-	2	-	2	-
	b	2	-	2	-	2	-
	c	2	-	2	-	-	0
Ega	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	-	0
Isnaini Adinda P	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	-	0
Firda Shafira N	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	-	0
Atmim Ummurona	a	2	-	2	-	-	0
	b	2	-	2	-	-	0

Shinta	c	2	-	2	-	2	-
	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	-	0
Miffatun Laila U	a	2	-	2	-	2	-
	b	2	-	2	-	2	-
	c	2	-	2	-	-	0
Mutri Mutmainah	a	2	-	2	-	-	0
	b	2	-	2	-	-	0
	c	2	-	2	-	-	0
Ziyyatul K	a	2	-	2	-	-	0
	b	2	-	2	-	2	-
	c	2	-	2	-	2	-



### Lampiran 3. Alat Ultrasonikasi



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**Lampiran 4. Alat Aerasi**



Lampiran 5. Alat Syringe pump



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الاندونيسية



Lampiran 6. Alat *Particle Size Analysis*



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الاندونيسية

Lampiran 7. Data distribusi ukuran partikel 0.2% menit ke 2

**HORIBA**  
Scientific

HORIBA SZ-100 for Windows [Z Type] Ver2.00

**SZ-100**

**Utrasonikasi dan aerasi 0,2 % 2 menit minggu k 0 februari R1.nsz**  
**Measurement Results**

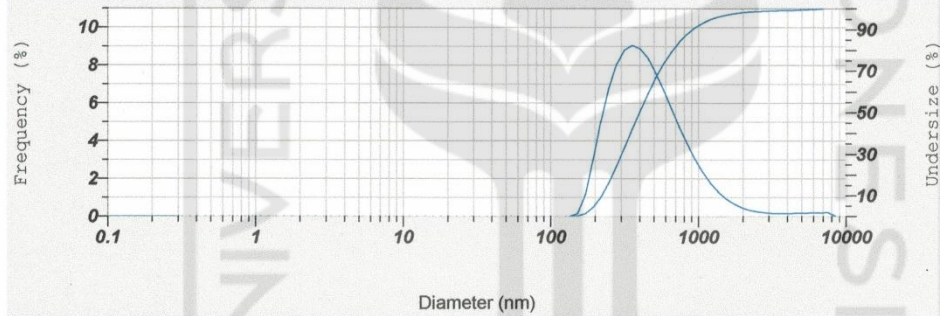
Date : Saturday, February 02, 2019 7:10:17 PM  
 Measurement Type : Particle Size  
 Sample Name : ultrasonikasi dan aerasi 2 menit 0,2% MINGGU  
 Scattering Angle : 90  
 Temperature of the Holder : 24.8 °C  
 Dispersion Medium Viscosity : 0.899 mPa·s  
 Transmission Intensity before Meas. : 33567  
 Distribution Form : Standard  
 Distribution Form(Dispersity) : Monodisperse  
 Representation of Result : Scattering Light Intensity  
 Count Rate : 168 kCPS

**Calculation Results**

Peak No.	S.P.Area Ratio	Mean	S. D.	Mode
1	0.99	501.4 nm	359.1 nm	335.2 nm
2	0.01	5449.3 nm	1110.1 nm	6684.0 nm
3	—	— nm	— nm	— nm
Total	1.00	551.3 nm	620.2 nm	335.2 nm

**Cumulant Operations**

Z-Average : 305.6 nm  
 PI : 0.367



No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation
1	0.34	0.000	0.000	22	4.40	0.000	0.000	43	57.09	0.000	0.000	64	740.89	4.734	83.746
2	0.36	0.000	0.000	23	4.97	0.000	0.000	44	64.50	0.000	0.000	65	837.07	3.633	87.579
3	0.43	0.000	0.000	24	5.61	0.000	0.000	45	72.87	0.000	0.000	66	945.74	3.025	90.805
4	0.46	0.000	0.000	25	6.34	0.000	0.000	46	82.33	0.000	0.000	67	1069.52	2.329	92.934
5	0.55	0.000	0.000	26	7.17	0.000	0.000	47	93.02	0.000	0.000	68	1207.24	1.749	94.683
6	0.62	0.000	0.000	27	8.10	0.000	0.000	48	105.10	0.000	0.000	69	1363.97	1.283	95.966
7	0.70	0.000	0.000	28	9.15	0.000	0.000	49	118.74	0.000	0.000	70	1541.04	0.920	96.886
8	0.80	0.000	0.000	29	10.34	0.000	0.000	50	134.16	0.000	0.000	71	1741.10	0.648	97.534
9	0.90	0.000	0.000	30	11.68	0.000	0.000	51	151.57	0.116	0.116	72	1967.14	0.451	97.985
10	1.02	0.000	0.000	31	13.20	0.000	0.000	52	171.25	1.076	1.192	73	2222.51	0.315	98.300
11	1.15	0.000	0.000	32	14.91	0.000	0.000	53	193.48	2.974	4.165	74	2511.05	0.227	98.527
12	1.30	0.000	0.000	33	16.84	0.000	0.000	54	218.60	5.021	9.186	75	2837.04	0.175	98.703
13	1.47	0.000	0.000	34	19.03	0.000	0.000	55	246.98	6.777	15.963	76	3205.35	0.149	98.852
14	1.66	0.000	0.000	35	21.50	0.000	0.000	56	279.04	8.054	24.017	77	3621.48	0.140	98.992
15	1.87	0.000	0.000	36	24.29	0.000	0.000	57	315.27	8.804	32.821	78	4091.63	0.143	99.135
16	2.11	0.000	0.000	37	27.45	0.000	0.000	58	356.20	9.052	41.873	79	4622.81	0.151	99.286
17	2.39	0.000	0.000	38	31.01	0.000	0.000	59	402.44	8.865	50.739	80	5222.96	0.163	99.449
18	2.70	0.000	0.000	39	35.03	0.000	0.000	60	454.69	8.341	59.080	81	5901.02	0.174	99.623
19	3.05	0.000	0.000	40	39.58	0.000	0.000	61	513.71	7.574	66.654	82	6667.10	0.184	99.808
20	3.45	0.000	0.000	41	44.72	0.000	0.000	62	580.41	6.664	73.318	83	7532.65	0.192	100.000
21	3.89	0.000	0.000	42	50.53	0.000	0.000	63	655.76	5.694	79.013	84	8510.98	0.000	100.000

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Lampiran 8. Data distribusi ukuran partikel 0.2% menit ke 4

**HORIBA**  
Scientific

HORIBA SZ-100 for Windows [Z Type] Ver.2.00

**SZ-100**

**Ultrasonikasi dan aerasi 0,2 % 4 menit minggu k 0 februari R1.nsz**  
**Measurement Results**

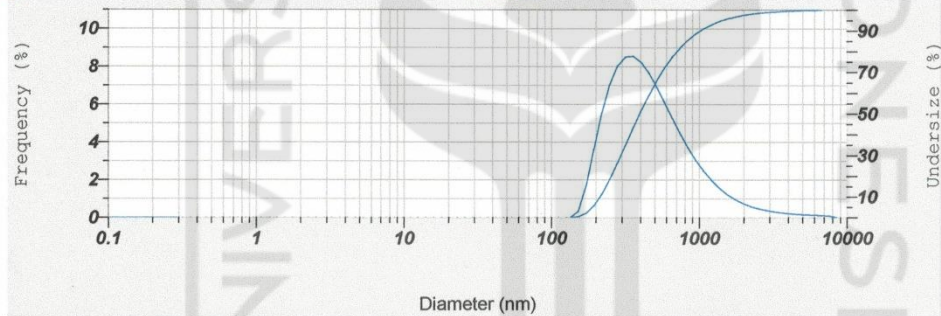
Date : Saturday, February 02, 2019 7:48:43 PM  
 Measurement Type : Particle Size  
 Sample Name : ultrasonikasi dan aerasi 4 menit 0,2% MINGGU  
 Scattering Angle : 90  
 Temperature of the Holder : 24.9 °C  
 Dispersion Medium Viscosity : 0.897 mPa·s  
 Transmission Intensity before Meas. : 26525  
 Distribution Form : Standard  
 Distribution Form(Dispersity) : Monodisperse  
 Representation of Result : Scattering Light Intensity  
 Count Rate : 771 kCPS

**Calculation Results**

Peak No.	S.P.Area Ratio	Mean	S. D.	Mode
1	1.00	565.9 nm	596.3 nm	334.4 nm
2	---	--- nm	--- nm	--- nm
3	---	--- nm	--- nm	--- nm
Total	1.00	565.9 nm	596.3 nm	334.4 nm

**Cumulant Operations**

Z-Average : 411.7 nm  
 PI : 0.271



No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation
1	0.34	0.000	0.000	22	4.40	0.000	0.000	43	57.09	0.000	0.000	64	740.89	4.443	81.644
2	0.38	0.000	0.000	23	4.97	0.000	0.000	44	64.50	0.000	0.000	65	837.07	3.897	85.341
3	0.43	0.000	0.000	24	5.61	0.000	0.000	45	72.87	0.000	0.000	66	945.74	3.031	88.372
4	0.48	0.000	0.000	25	6.34	0.000	0.000	46	82.33	0.000	0.000	67	1068.52	2.453	90.825
5	0.55	0.000	0.000	26	7.17	0.000	0.000	47	93.02	0.000	0.000	68	1207.24	1.963	92.788
6	0.62	0.000	0.000	27	8.10	0.000	0.000	48	105.10	0.000	0.000	69	1363.97	1.556	94.345
7	0.70	0.000	0.000	28	9.15	0.000	0.000	49	118.74	0.000	0.000	70	1541.04	1.225	95.570
8	0.80	0.000	0.000	29	10.34	0.000	0.000	50	134.16	0.000	0.000	71	1741.10	0.959	96.529
9	0.90	0.000	0.000	30	11.68	0.000	0.000	51	151.57	0.308	0.308	72	1967.14	0.749	97.277
10	1.02	0.000	0.000	31	13.20	0.000	0.000	52	171.25	1.623	1.931	73	2222.51	0.585	97.862
11	1.15	0.000	0.000	32	14.91	0.000	0.000	53	193.48	3.595	5.526	74	2511.05	0.458	98.320
12	1.30	0.000	0.000	33	16.84	0.000	0.000	54	218.60	5.511	11.038	75	2837.04	0.361	98.682
13	1.47	0.000	0.000	34	19.03	0.000	0.000	55	246.98	7.022	18.060	76	3205.35	0.288	98.970
14	1.66	0.000	0.000	35	21.50	0.000	0.000	56	279.04	8.015	26.073	77	3621.48	0.232	99.202
15	1.87	0.000	0.000	36	24.29	0.000	0.000	57	315.27	8.497	34.570	78	4091.63	0.191	99.393
16	2.11	0.000	0.000	37	27.45	0.000	0.000	58	356.20	8.533	43.102	79	4622.81	0.159	99.552
17	2.39	0.000	0.000	38	31.01	0.000	0.000	59	402.44	8.215	51.318	80	5222.66	0.135	99.688
18	2.70	0.000	0.000	39	35.03	0.000	0.000	60	454.69	7.641	58.959	81	5901.02	0.117	99.805
19	3.05	0.000	0.000	40	39.58	0.000	0.000	61	513.71	6.905	65.864	82	6667.10	0.103	99.908
20	3.45	0.000	0.000	41	44.72	0.000	0.000	62	580.41	6.087	71.951	83	7532.65	0.092	100.000
21	3.89	0.000	0.000	42	50.53	0.000	0.000	63	655.76	5.250	77.201	84	8510.56	0.000	100.000

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**HORIBA**



Lampiran 9. Data distribusi ukuran partikel 0.2% menit ke 6

**HORIBA**  
Scientific

HORIBA SZ-100 for Windows [Z Type] Ver2.00

**SZ-100**

**Ultrasonikasi dan aerasi 0,2 % 6 menit minggu k 0 februari R2.nsz**  
**Measurement Results**

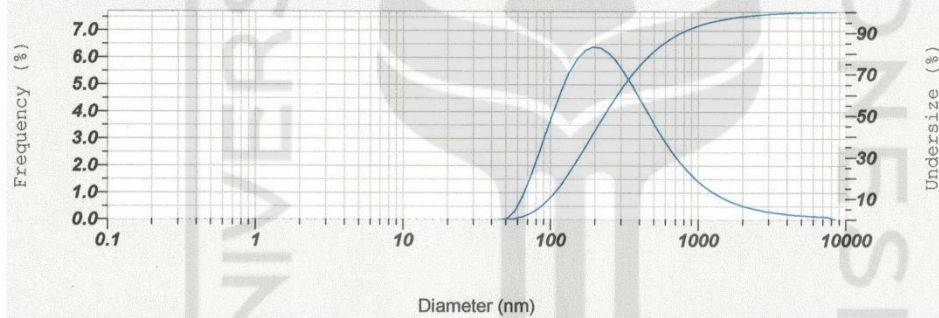
Date : Saturday, February 02, 2019 7:41:13 PM  
 Measurement Type : Particle Size  
 Sample Name : ultrasonikasi dan aerasi 4 menit 0,2% MINGGU  
 Scattering Angle : 90  
 Temperature of the Holder : 24.9 °C  
 Dispersion Medium Viscosity : 0.897 mPa·s  
 Transmission Intensity before Meas. : 33726  
 Distribution Form : Standard  
 Distribution Form(Dispersity) : Monodisperse  
 Representation of Result : Scattering Light Intensity  
 Count Rate : 288 kCPS

**Calculation Results**

Peak No.	S.P.Area Ratio	Mean	S. D.	Mode
1	1.00	399.5 nm	590.5 nm	182.2 nm
2	---	--- nm	--- nm	--- nm
3	---	--- nm	--- nm	--- nm
Total	1.00	399.5 nm	590.5 nm	182.2 nm

**Cumulant Operations**

Z-Average : 203.5 nm  
 PI : 0.576



No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation	No.	Diameter	Frequency	Cumulation
1	0.34	0.000	0.000	22	4.40	0.000	0.000	43	57.09	0.280	0.280	64	740.89	2.163	89.218
2	0.38	0.000	0.000	23	4.97	0.000	0.000	44	64.50	0.812	1.092	65	857.07	1.824	91.043
3	0.43	0.000	0.000	24	5.61	0.000	0.000	45	72.87	1.519	2.611	66	945.74	1.530	92.573
4	0.49	0.000	0.000	25	6.34	0.000	0.000	46	82.55	2.332	4.944	67	1069.52	1.279	93.852
5	0.55	0.000	0.000	26	7.17	0.000	0.000	47	93.02	3.188	8.132	68	1207.24	1.065	94.917
6	0.62	0.000	0.000	27	8.10	0.000	0.000	48	105.10	4.027	12.159	69	1363.97	0.886	95.803
7	0.70	0.000	0.000	28	9.15	0.000	0.000	49	118.74	4.794	16.953	70	1541.04	0.737	96.540
8	0.80	0.000	0.000	29	10.34	0.000	0.000	50	134.16	5.442	22.395	71	1741.10	0.613	97.153
9	0.90	0.000	0.000	30	11.68	0.000	0.000	51	151.57	5.935	28.329	72	1967.14	0.510	97.663
10	1.02	0.000	0.000	31	13.20	0.000	0.000	52	171.25	6.252	34.581	73	2222.51	0.426	98.089
11	1.15	0.000	0.000	32	14.91	0.000	0.000	53	193.48	6.387	40.968	74	2511.05	0.357	98.446
12	1.30	0.000	0.000	33	16.84	0.000	0.000	54	218.60	6.349	47.317	75	2837.04	0.300	98.746
13	1.47	0.000	0.000	34	19.03	0.000	0.000	55	246.98	6.157	53.474	76	3205.38	0.253	99.000
14	1.66	0.000	0.000	35	21.50	0.000	0.000	56	279.04	5.830	59.313	77	3621.48	0.215	99.214
15	1.87	0.000	0.000	36	24.29	0.000	0.000	57	315.27	5.428	64.741	78	4091.63	0.183	99.397
16	2.11	0.000	0.000	37	27.45	0.000	0.000	58	356.20	4.955	69.696	79	4622.81	0.156	99.553
17	2.39	0.000	0.000	38	31.01	0.000	0.000	59	402.44	4.451	74.147	80	5222.96	0.134	99.688
18	2.70	0.000	0.000	39	35.03	0.000	0.000	60	454.69	3.940	78.087	81	5891.02	0.116	99.803
19	3.05	0.000	0.000	40	39.58	0.000	0.000	61	513.71	3.444	81.531	82	6667.10	0.100	99.904
20	3.45	0.000	0.000	41	44.72	0.000	0.000	62	580.41	2.976	84.507	83	7532.65	0.087	99.991
21	3.89	0.000	0.000	42	50.53	0.000	0.000	63	655.76	2.548	87.055	84	8510.56	0.000	100.000

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# Lampiran 10. Zeta potensial konsentrasi 0.2% menit ke 2

2019.04.16 13:16:43

**HORIBA**  
Scientific

HORIBA SZ-100 for Windows [Z Type] Ver2.00

**SZ-100**

## Measurement Results

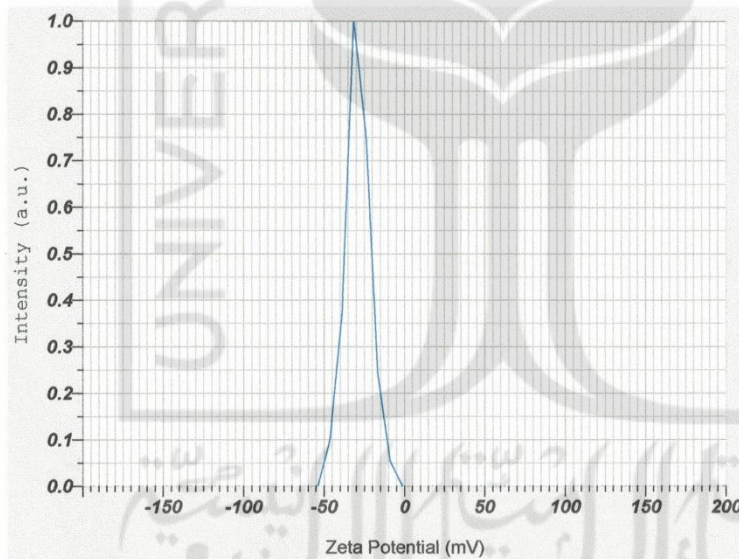
### Zeta ultrasonikasi dan aerasi 2 menit 0,2% minggu 0 R1.nzt Measurement Results

Date : Saturday, February 02, 2019 9:09:36 PM  
Measurement Type : Zeta Potential  
Sample Name : Ultrasonikasi dan aerasi 2 menit 0,2% minggu 0  
Temperature of the Holder : 24.8 °C  
Dispersion Medium Viscosity : 0.898 mPa-s  
Conductivity : 0.305 mS/cm  
Electrode Voltage : 3.3 V

### Calculation Results

Peak No.	Zeta Potential	Electrophoretic Mobility
1	-28.9 mV	-0.000224 cm <sup>2</sup> /Vs
2	-- mV	-- cm <sup>2</sup> /Vs
3	-- mV	-- cm <sup>2</sup> /Vs

Zeta Potential (Mean) : -28.9 mV  
Electrophoretic Mobility Mean : -0.000224 cm<sup>2</sup>/Vs



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# Lampiran 11. Zeta potensial konsentrasi 0.2% menit ke 4

2019.04.16 13:16:44

**HORIBA**  
Scientific

HORIBA SZ-100 for Windows [Z Type] Ver2.00

**SZ-100**

## Measurement Results

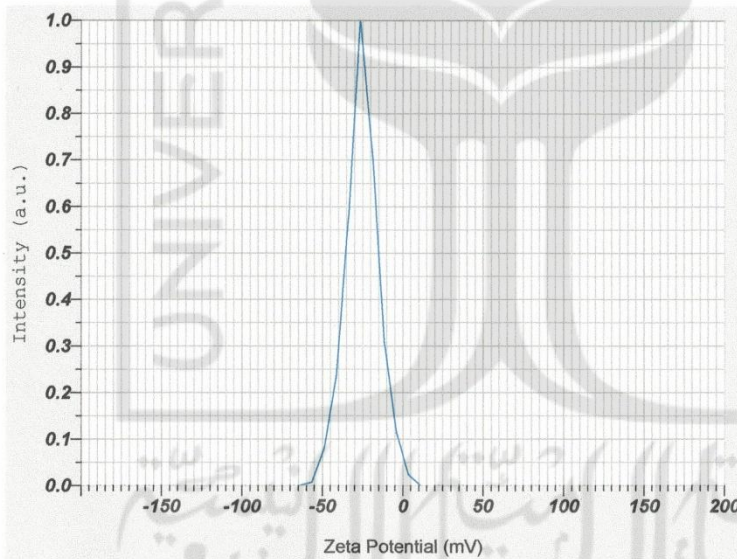
### Zeta ultrasonikasi dan aerasi 4 menit 0,2% minggu 0 R1.nzt Measurement Results

Date : Saturday, February 02, 2019 9:18:12 PM  
Measurement Type : Zeta Potential  
Sample Name : Ultrasonikasi dan aerasi 4 menit 0,2% minggu 0  
Temperature of the Holder : 24.9 °C  
Dispersion Medium Viscosity : 0.897 mPa·s  
Conductivity : 0.273 mS/cm  
Electrode Voltage : 3.3 V

### Calculation Results

Peak No.	Zeta Potential	Electrophoretic Mobility
1	-25.3 mV	-0.000196 cm <sup>2</sup> /Vs
2	-- mV	-- cm <sup>2</sup> /Vs
3	-- mV	-- cm <sup>2</sup> /Vs

Zeta Potential (Mean) : -25.3 mV  
Electrophoretic Mobility Mean : -0.000196 cm<sup>2</sup>/Vs





## Lampiran 12. Zeta potensial konsentrasi 0.2% menit ke 6

2019.04.16 13:16:44

**HORIBA**  
Scientific

HORIBA SZ-100 for Windows [Z Type] Ver2.00

**SZ-100**

### Measurement Results

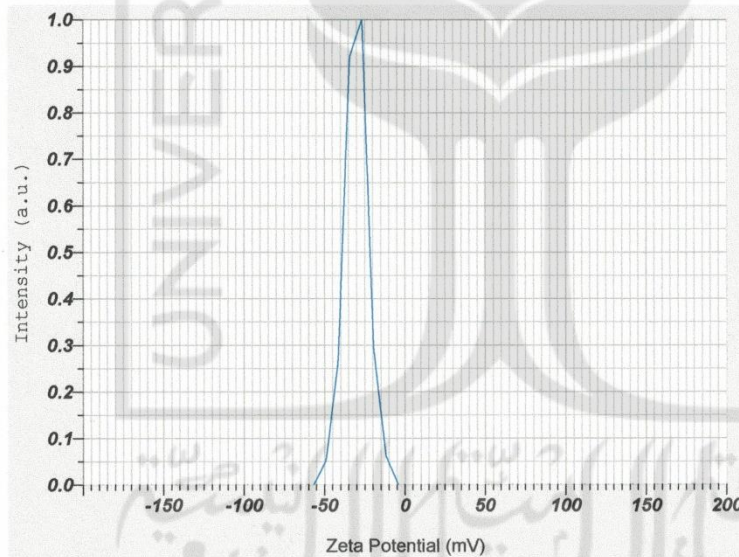
#### Zeta ultrasonikasi dan aerasi 6 menit 0,2% minggu 0 R1.nzt Measurement Results

Date : Saturday, February 02, 2019 9:34:18 PM  
Measurement Type : Zeta Potential  
Sample Name : Ultrasonikasi dan aerasi 6 menit 0,2% minggu 0  
Temperature of the Holder : 24.9 °C  
Dispersion Medium Viscosity : 0.897 mPa·s  
Conductivity : 0.189 mS/cm  
Electrode Voltage : 3.4 V

#### Calculation Results

Peak No.	Zeta Potential	Electrophoretic Mobility
1	-30.2 mV	-0.000234 cm <sup>2</sup> /Vs
2	--- mV	--- cm <sup>2</sup> /Vs
3	--- mV	--- cm <sup>2</sup> /Vs

Zeta Potential (Mean) : -30.2 mV  
Electrophoretic Mobility Mean : -0.000234 cm<sup>2</sup>/Vs



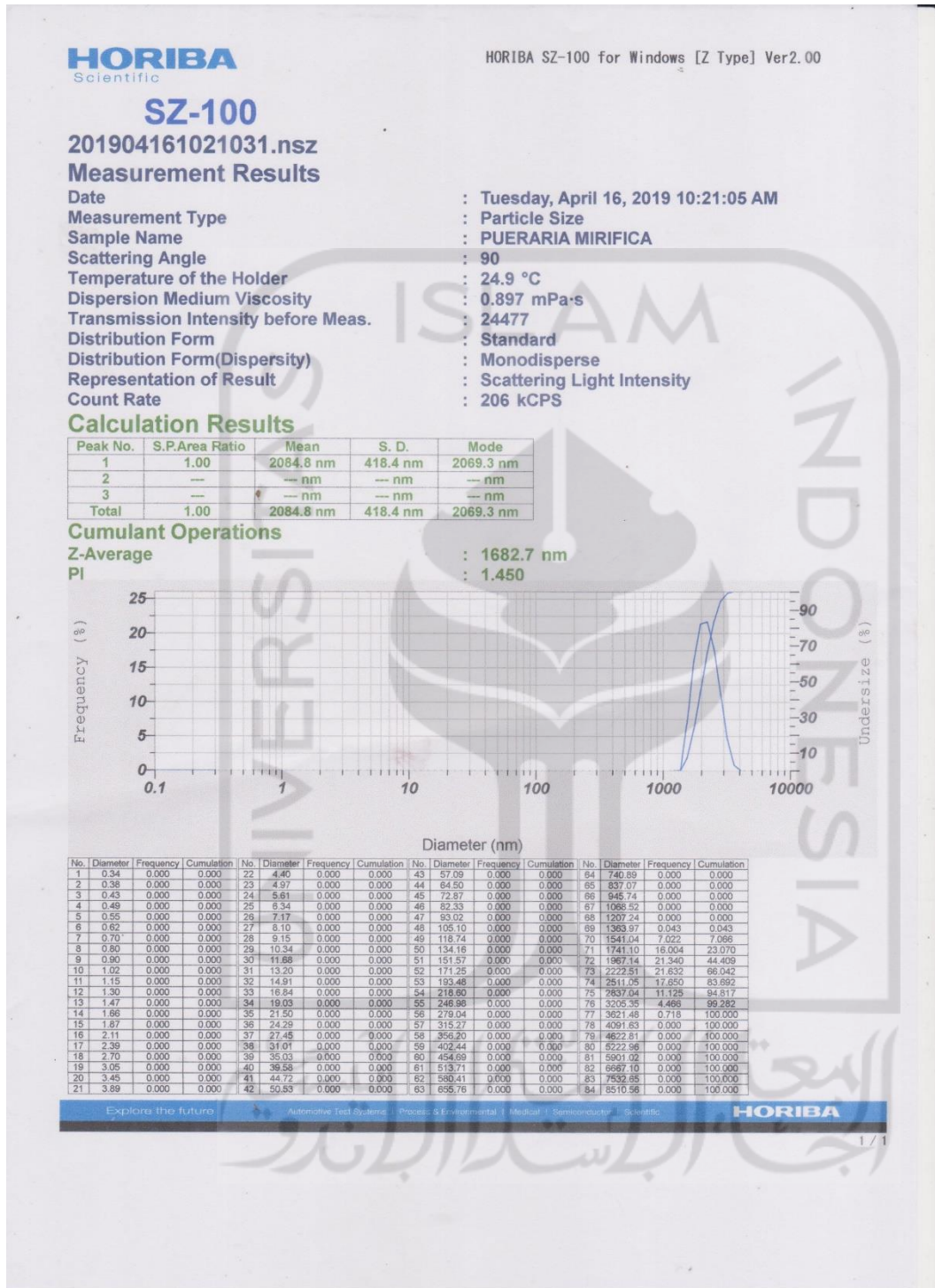
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Lampiran 13. Data ukuran partikel ekstrak *Pueraria mirifica*





**Lampiran 14.** Analisis uji statistika dengan MANOVA

Waktu Homogenisasi (menit)	Variabel dependent	Type III of squares	dt	Mean square	F	Sig.	Partial Eta Squared
2 Menit	Ukuran Partikel	306.896 <sup>a</sup>	2	153.448	364.388	.000	.992
	Zeta Potensial	6578769.127 <sup>b</sup>	2	3289384.563	142.446	.000	.979
4 Menit	Ukuran Partikel	189.896 <sup>a</sup>	2	94.948	75.958	.000	.962
	Zeta Potensial	5800241.929 <sup>b</sup>	2	2900120.964	27.178	.001	.901
6 Menit	Ukuran Partikel	347.247 <sup>a</sup>	2	173.623	903.243	.000	.997
	Zeta Potensial	8282749.947 <sup>b</sup>	2	4141374.973	33.512	.001	.918

