

LAMPIRAN

Lampiran 1 Daun putri malu



Lampiran 2 Determinasi tanaman putri malu



DIREKTORAT PENGELOLAAN KOLEKSI ILMIAH

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Nomor : B-1358/II.6.2/IR.01.02/6/2023

14 Juni 2023

Lampiran : -

Perihal : Hasil Identifikasi/Determinasi Tumbuhan

Yth.
Bpk./Ibu/Sdr(i). **Fabio Rifqi Isyraq Hasan**
Universitas Esa Unggul

Bersama ini kami sampaikan hasil identifikasi/determinasi tumbuhan yang Saudara kirimkan ke "Herbarium Bogoriense", Direktorat Pengelolaan Koleksi Ilmiah BRIN Cibinong, adalah sebagai berikut:

No.	No. Kol.	Jenis	Suku
1.	Tanaman Putri Malu	<i>Mimosa pudica</i> L.	Fabaceae

Demikian, semoga berguna bagi Saudara.

Pt. Direktorat Pengelolaan Koleksi Ilmiah,
Badan Riset dan Inovasi Nasional



Dr. Ratih Damayanti, S.Hut., M.Si.

Universitas
Esa Unggul



Dokumen ini diandalkan
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elektronik yang dapat diunduh
dengan melakukan scan QR
Code

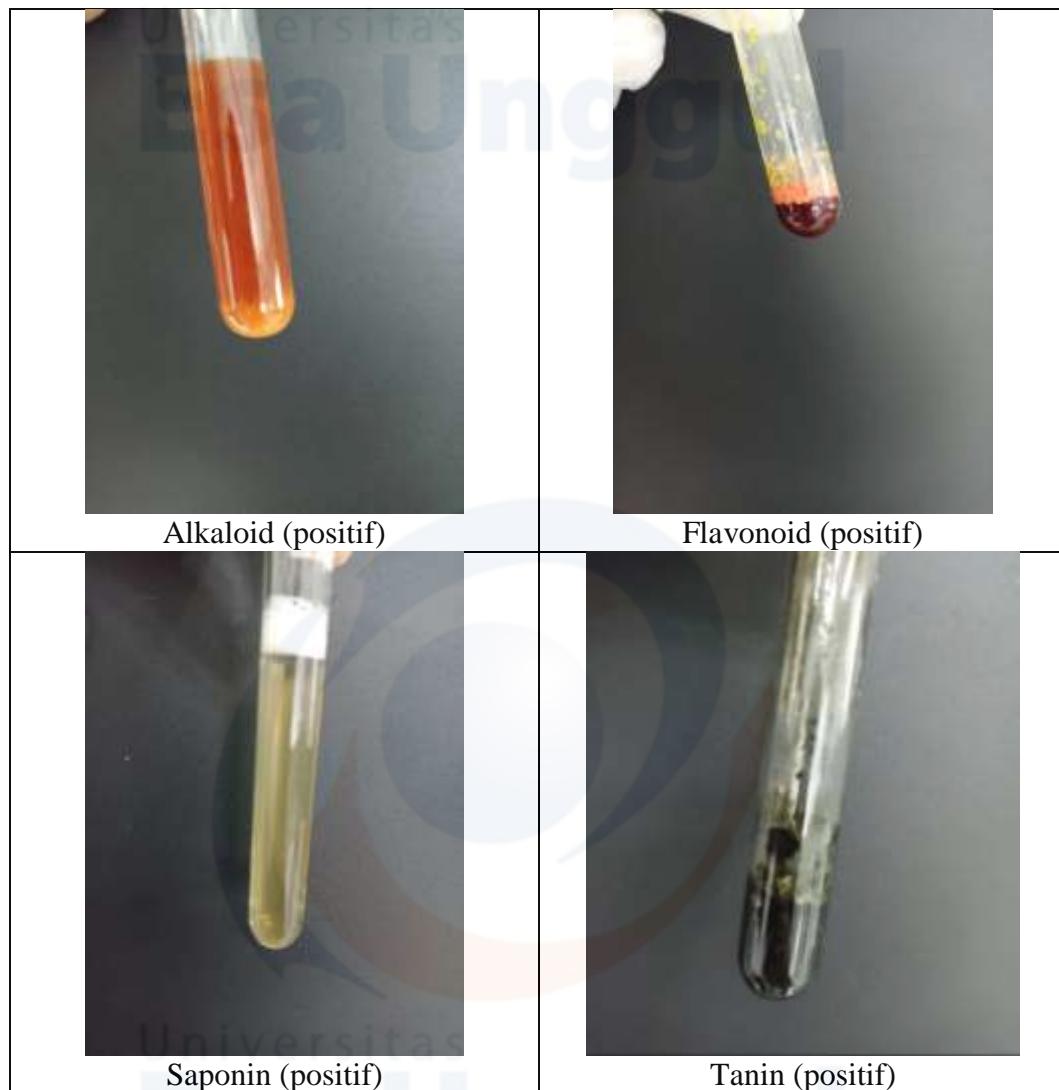
Lampiran 3 Perhitungan rendemen simplisia (%)

$$\begin{aligned}\% \text{ Pengeringan} &= \frac{\text{Berat daun kering}}{\text{Berat daun basah}} \times 100\% \\ &= \frac{706,57}{3.000} \times 100\% \\ &= 23,55\%\end{aligned}$$

Lampiran 4 Perhitungan rendemen ekstrak (%)

$$\begin{aligned}\% \text{ Rendemen} &= \frac{\text{Berat ekstrak}}{\text{berat simplisia}} \times 100\% \\ &= \frac{22,60}{500} \times 100\% \\ &= 4,52\%\end{aligned}$$

Lampiran 5 Skrining fitokimia



Lampiran 6 Perhitungan sediaan gel 100 gram

Formula 1 =	Ekstrak daun putri malu 1%	$= \frac{1}{100} \times 100 = 1 \text{ gram}$
	HPMC 0,3%	$= \frac{0,3}{100} \times 100 = 0,3 \text{ gram}$
	CMC-Na 2,7%	$= \frac{2,7}{100} \times 100 = 2,7 \text{ gram}$
	Propilen glikol 10%	$= \frac{10}{100} \times 100 = 10 \text{ gram}$
	Metilparaben 0,2%	$= \frac{0,2}{100} \times 100 = 0,2 \text{ gram}$
	Aquadest	$= 100 - (1\text{g} + 0,3\text{g} + 2,7\text{g} + 10\text{g} + 0,2\text{g})$
		$= 85,8 \text{ gram}$
Formula 2 =	Ekstrak daun putri malu 1%	$= \frac{1}{100} \times 100 = 1 \text{ gram}$
	HPMC 0,6%	$= \frac{0,6}{100} \times 100 = 0,6 \text{ gram}$
	CMC-Na 2,4%	$= \frac{2,4}{100} \times 100 = 2,4 \text{ gram}$
	Propilen glikol 10%	$= \frac{10}{100} \times 100 = 10 \text{ gram}$
	Metilparaben 0,2%	$= \frac{0,2}{100} \times 100 = 0,2 \text{ gram}$
	Aquadest	$= 100 - (1\text{g} + 0,6\text{g} + 2,4\text{g} + 10\text{g} + 0,2\text{g})$
		$= 85,8 \text{ gram}$
Formula 3 =	Ekstrak daun putri malu 1%	$= \frac{1}{100} \times 100 = 1 \text{ gram}$
	HPMC 0,9%	$= \frac{0,9}{100} \times 100 = 0,9 \text{ gram}$
	CMC-Na 2,1%	$= \frac{2,1}{100} \times 100 = 2,1 \text{ gram}$
	Propilen glikol 10%	$= \frac{10}{100} \times 100 = 10 \text{ gram}$
	Metilparaben 0,2%	$= \frac{0,2}{100} \times 100 = 0,2 \text{ gram}$
	Aquadest	$= 100 - (1\text{g} + 0,9\text{g} + 2,1\text{g} + 10\text{g} + 0,2\text{g})$
		$= 85,8 \text{ gram}$

Formula 4 =	Ekstrak daun putri malu 1%	$= \frac{1}{100} \times 100 = 1 \text{ gram}$
	HPMC 1,2%	$= \frac{1,2}{100} \times 100 = 1,2 \text{ gram}$
	CMC-Na 1,8%	$= \frac{1,8}{100} \times 100 = 1,8 \text{ gram}$
	Propilen glikol 10%	$= \frac{10}{100} \times 100 = 10 \text{ gram}$
	Metilparaben 0,2%	$= \frac{0,2}{100} \times 100 = 0,2 \text{ gram}$
	Aquadest	$= 100 - (1\text{g} + 1,2\text{g} + 1,8\text{g} + 10\text{g} + 0,2\text{g})$
		$= 85,8 \text{ gram}$
Formula 5 =	Ekstrak daun putri malu 1%	$= \frac{1}{100} \times 100 = 1 \text{ gram}$
	HPMC 1,5%	$= \frac{1,5}{100} \times 100 = 1,5 \text{ gram}$
	CMC-Na 1,5%	$= \frac{1,5}{100} \times 100 = 1,5 \text{ gram}$
	Propilen glikol 10%	$= \frac{10}{100} \times 100 = 10 \text{ gram}$
	Metilparaben 0,2%	$= \frac{0,2}{100} \times 100 = 0,2 \text{ gram}$
	Aquadest	$= 100 - (1\text{g} + 1,5\text{g} + 1,5\text{g} + 10\text{g} + 0,2\text{g})$
		$= 85,8 \text{ gram}$

Lampiran 7 Hasil ANOVA fit statistic simplex lattice design**Hasil pH**

Response 1: pH							
	Source	Sum of Squares	df	Mean Square	F-value	p-value	
Model		1.14	2	0.5696	37.29	0.0010	significant
(1)Linear Mixture		1.03	1	1.03	67.25	0.0004	
AB		0.1120	1	0.1120	7.33	0.0424	
Residual		0.0764	5	0.0153			
Lack of Fit		0.0056	2	0.0028	0.1181	0.8926	not significant
Pure Error		0.0708	3	0.0236			
Cor Total		1.22	7				

Fit Statistics

Std. Dev.	0.1236	R²	0.9372
Mean	5.95	Adjusted R²	0.9120
C.V. %	2.08	Predicted R²	0.8000
		Adeq Precision	12.6256

Coefficients in Terms of Coded Factors

Component	Coefficient Estimate	df	Standard Error	95% CI Low	95% CI High	VIF
A-HPMC	5.35	1	0.0845	5.13	5.57	1.46
B-CMC-Na	6.31	1	0.0845	6.09	6.52	1.46
AB	1.06	1	0.3916	0.0538	2.07	1.96

Hasil Daya Sebar

Response 2: Daya Sebar							
	Source	Sum of Squares	df	Mean Square	F-value	p-value	
Model		1.58	1	1.58	254.49	< 0.0001	significant
(1)Linear Mixture		1.58	1	1.58	254.49	< 0.0001	
Residual		0.0373	6	0.0062			
Lack of Fit		0.0146	3	0.0049	0.6454	0.6361	not significant
Pure Error		0.0227	3	0.0076			
Cor Total		1.62	7				

Fit Statistics					
Std. Dev.	0.0789		R²	0.9770	
Mean	5.92		Adjusted R²	0.9731	
C.V. %	1.33		Predicted R²	0.9517	
			Adeq Precision	30.0808	

Coefficients in Terms of Coded Factors							
	Component	Coefficient Estimate	df	Standard Error	95% CI Low	95% CI High	VIF
	A-HPMC	6.51	1	0.0465	6.40	6.62	1.09
	B-CMC-Na	5.32	1	0.0465	5.21	5.44	1.09

Hasil Daya Lekat

Response 3: Daya Lekat						
	Source	Sum of Squares	df	Mean Square	F-value	p-value
Model		56.25	2	28.13	46.89	0.0006 significant
(¹)Linear Mixture		47.47	1	47.47	79.14	0.0003
AB		8.79	1	8.79	14.65	0.0123
Residual		3.00	5	0.5998		
Lack of Fit		0.6441	2	0.3221	0.4103	0.6958 not significant
Pure Error		2.35	3	0.7850		
Cor Total		59.25	7			

Fit Statistics					
Std. Dev.	0.7745		R²	0.9494	
Mean	5.59		Adjusted R²	0.9291	
C.V. %	13.85		Predicted R²	0.8410	
			Adeq Precision	13.9855	

Coefficients in Terms of Coded Factors							
	Component	Coefficient Estimate	df	Standard Error	95% CI Low	95% CI High	VIF
	A-HPMC	3.37	1	0.5294	2.01	4.73	1.46
	B-CMC-Na	9.87	1	0.5294	8.50	11.23	1.46
	AB	-9.39	1	2.45	-15.70	-3.08	1.96

Lampiran 8 Hasil formula optimum

The screenshot shows a software interface with a header containing 'Criteria', 'Solutions', and 'Graphs' tabs. The 'Solutions' tab is selected, and a dropdown menu shows 'Starting Points'. Below the header, the word 'Solutions' is displayed in bold. A message indicates '1 Solutions found'. A table follows, with columns labeled 'Number', 'HPMC', 'CMC-Na', 'pH', 'Daya Sebar', 'Daya Lekat', and 'Desirability'. The first row contains the values: Number 1, HPMC 10.000, CMC-Na 90.000, pH 6.307, Daya Sebar 5.324, Daya Lekat 9.865, Desirability 0.844, and a status 'Selected'.

	Number	HPMC	CMC-Na	pH	Daya Sebar	Daya Lekat	Desirability	
1	10.000	90.000	6.307		5.324	9.865	0.844	Selected

Lampiran 9 Perhitungan sediaan gel 300 gram untuk formula optimum

Formula optimum =

Ekstrak daun putri malu 1%	$= \frac{1}{100} \times 300 = 3 \text{ gram}$
HPMC 0,3%	$= \frac{0,3}{100} \times 300 = 0,9 \text{ gram}$
CMC-Na 2,7%	$= \frac{2,7}{100} \times 300 = 8,1 \text{ gram}$
Propilen glikol 10%	$= \frac{10}{100} \times 300 = 30 \text{ gram}$
Metilparaben 0,2%	$= \frac{0,2}{100} \times 300 = 0,6 \text{ gram}$
Aquadest	$= 300 - (3\text{g} + 0,9\text{g} + 8,1\text{g} + 30\text{g} + 0,6\text{g})$ $= 257,4 \text{ gram}$

Lampiran 10 Analisis data SPSS *one sample t-test***Hasil pH**

One-Sample Statistics				
	N	Mean	Std. Deviation	Std. Error Mean
Hasil pH Formula Optimum	3	6.3467	.03055	.01764

One-Sample Test					
				95% Confidence Interval of the Difference	
t	df	Sig. (2-tailed)	Mean Difference	Lower	Upper
Hasil pH Formula Optimum	2.249	2	.153	.03967	-.0362 .1156

Hasil daya sebar

One-Sample Statistics				
	N	Mean	Std. Deviation	Std. Error Mean
Hasil Daya Sebar Formula Optimum	3	5.6233	.15948	.09207

One-Sample Test					
				95% Confidence Interval of the Difference	
t	df	Sig. (2-tailed)	Mean Difference	Lower	Upper
Hasil Daya Sebar Formula Optimum	3.251	2	.083	.29933	-.0968 .6955

Hasil daya lekat

One-Sample Statistics				
	N	Mean	Std. Deviation	Std. Error Mean
Hasil Daya Lekat Formula Optimum	3	9.1900	.77019	.44467

One-Sample Test					
				95% Confidence Interval of the Difference	
t	df	Sig. (2-tailed)	Mean Difference	Lower	Upper
Hasil Daya Lekat Formula Optimum	-1.518	2	.268	-.67500	-2.5883 1.2383

Lampiran 11 Perhitungan sineresis (%)

Rumus sineresis :

$$\text{Sineresis (\%)} = \frac{\text{Berat awal} - \text{berat akhir}}{\text{berat awal}} \times 100\%$$

Hari ke 1 Suhu $5\pm2^\circ\text{C}$

$$\begin{aligned}\text{Sineresis (\%)} &= \frac{50,76 \text{ g} - 50,75 \text{ g}}{50,76 \text{ g}} \times 100\% \\ &= 0,02\%\end{aligned}$$

Hari ke 1 Suhu $35\pm2^\circ\text{C}$

$$\begin{aligned}\text{Sineresis (\%)} &= \frac{50,03 \text{ g} - 49,84 \text{ g}}{50,03 \text{ g}} \times 100\% \\ &= 0,38\%\end{aligned}$$

Hari ke 2 Suhu $5\pm2^\circ\text{C}$

$$\begin{aligned}\text{Sineresis (\%)} &= \frac{50,75 \text{ g} - 50,73 \text{ g}}{50,75 \text{ g}} \times 100\% \\ &= 0,04\%\end{aligned}$$

Hari ke 2 Suhu $35\pm2^\circ\text{C}$

$$\begin{aligned}\text{Sineresis (\%)} &= \frac{49,84 \text{ g} - 49,70 \text{ g}}{49,84 \text{ g}} \times 100\% \\ &= 0,28\%\end{aligned}$$

Hari ke 3 Suhu $5\pm2^\circ\text{C}$

$$\begin{aligned}\text{Sineresis (\%)} &= \frac{50,73 \text{ g} - 50,72 \text{ g}}{50,73 \text{ g}} \times 100\% \\ &= 0,02\%\end{aligned}$$

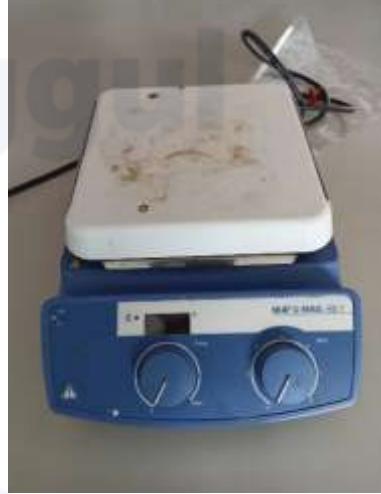
Hari ke 3 Suhu $35\pm2^\circ\text{C}$

$$\begin{aligned}\text{Sineresis (\%)} &= \frac{49,70 \text{ g} - 49,53 \text{ g}}{49,70 \text{ g}} \times 100\% \\ &= 0,34\%\end{aligned}$$

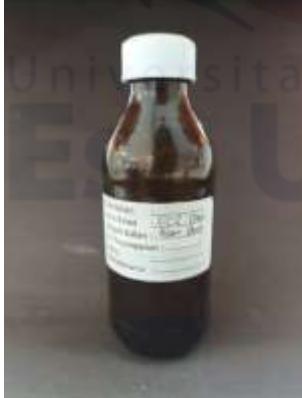
$$\text{Total sineresis suhu } 5\pm2^\circ\text{C} = 0,08\%$$

$$\text{Total sineresis suhu } 35\pm2^\circ\text{C} = 1\%$$

Lampiran 12 Alat dan bahan

	
Oven	Hotplate
	
Penangas air	Viskometer
	
Grinder	Timbangan analitik

 A laboratory apparatus consisting of a large round-bottom flask connected to a condenser and a vacuum line, mounted on a motorized base.	 A handheld electronic device with a digital display showing a color calibration screen and several buttons, used for measuring pH levels.
 A laboratory device with a vertical probe and a digital control unit, used for dispersing or mixing materials.	 A large metal incubator with a digital control panel and a glass viewing window.
 A white plastic bottle with a red cap, labeled "HPMC".	 A white plastic bottle with a gold cap, labeled "CMC-Na".
 A small white plastic bottle with a white cap, labeled "MetilParaben".	 A white plastic bottle with a blue cap, labeled "Propilen glikol".

	HCl Pekat		Aquadest
	Serbuk Mg		Dragendorff
	Mayer		FeCl ₃

Lampiran 13 Dokumentasi lain-lain

	Proses pemisahan daun dengan batang		Proses pengeringan
	Proses penghalusan daun		Proses pengayakan
	Proses ekstraksi		Proses filtrasi
	Proses evaporasi		Proses pengentalan ekstrak

 Hasil serbuk simplisia	 Hasil ekstrak kental
 Hasil sediaan 5 formula	 Hasil sediaan formula optimum

Lampiran 14 Sertifikat analisis propilen glikol

 		
HASIL PEMERIKSAAN		
Nama Bahan	: Propylene Glycol	
No Batch	: J 0041/18 (C815HBK22T)	
Ex	: Dow Chemical Pacific, Singapore	
E.D.	: 11/2025	
Grade	: Farma	
<hr/>		
Jenis Pemeriksaan	Persyaratan USP NF 19	Hasil
Pemerian	Cairan kental jernih,tidak berwarna, tidak berbau,rasa agak manis, hygroskopik	Sesuai
Kelarutan	Dapat bercampur dgn air,dengan etanol dan dengan kloroform	Sesuai
Keasam-basaan	$\leq 0,3 \text{ ml NaOH } 0,1 \text{ N}$	0,2 ml NaOH 0,1 N
Index Bias	1,431 - 1,433	1,433
Bobot per-ml	1,035 g - 1,037 g/ml	1,0364 g/ml
pH	$\pm 6,5$	7.476
<hr/>		
<i>Kesimpulan : Memenuhi Syarat</i>		
Cikarang, 22 – 01 – 2022		
Pemeriksa	Penanggung Jawab	
 Atria Wardhi Staff QC	 Dra. Tri Hartati Apoteker STRA : 18660421/STRA-ITB/1864/20192	
<hr/> <small> HEAD OFFICE: Jl. Cikeng Raya No. 76, Jakarta Pusat 11130, Telp. (021) 5022739 (rumah), Fax. (021) 5022734, E-mail: Info@brataco.com BRANCH OFFICE: • JAKARTA: Jl. Mangga Dua Barat V No.3, Jakarta 11190 Telp. (021) 5620110 (rumah), Fax. (021) 5620450 • BANDUNG: Jl. Boulevard Royal Blok T32 No. 5, Jakarta 11190 Telp. (021) 4949852-84 Fax. (021) 4938918 • KELUENING: Jl. Rukmini No. 171D, Bandung Telp. (022) 5071705, 5080008 Fax. (022) 5031976 • YOGYAKARTA: Jl. Veteran Jaktim No. 771D, Yogyakarta Telp. (022) 7215888-809 Fax. (022) 7235916 • SURABAYA: Jl. Braga No. 10, Surabaya Telp. (031) 4414237, 4414238 Fax. (031) 4414880 • DEPOK: Jl. Depok Selatan No. 41, Depok Telp. (021) 5510051, 5510052 Fax. (021) 5510446 • MAKASSAR: Jl. Tomohon No. 40, Makassar Telp. (0411) 5222997, 5222998 Fax. (0411) 5222999 • MEDAN: Jl. Merdeka Nomer no. 40 B, Medan Telp. (061) 446772, 4627196 Fax. (061) 4520999 <small>The Household Chemicals and Ingredients Distributor</small> </small>		

Lampiran 15 Sertifikat analisis etanol 96%

PT. INDO CLASSICA					
CERTIFICATE OF ANALYSIS					
Product Name	:	Solvent Ethanol Teknik			
Reg. Number	:	V. 501			
Lot Number	:	5 / 501 / 2208195445			
Issued	:	Agustus 2020			
No	Test Item	Unit	Test Method	Specification	Result
1	Appearance	-	Visual	Clear	Clear
2	Purity	wt %	Alcoholometer	Min. 96	96
3	Water Content	wt %	ASTM E1064- 12	Max 0.1	0.009
4	Specific Gravity at 20°C		ASTM D4052- 11	0.7910 - 0.7930	0.792
5	Colour	Hazen	ASTM D1209 - 05	Max 15	0
6	Acetone Content	mg / kg	IMPCA 001 - 09	Max 30	LT 30
7	Acidity [As Acetic Acid] / Free Acid	wt %	ASTM D1613 - 06	Max 0.003	LT 0.003
8	Hydrocarbons		ASTM D1722 - 09	-	Pass
9	Carbonisable Substances	Pt - Cu	ASTM E346 - 06	Max 30	LT 15
10	Distillation Range at 760 mmHg	°C	ASTM D1078 - 11	Max 1	-
	BP	°C	ASTM D1078 - 11		64.3
	DP	°C	ASTM D1078 - 11		64.9
11	Non Volatile Matter / Residue On Evaporation	mg / 100 ml	ASTM D1353 - 13	Max 1	LT 0.8
12	Permanganate (15°C)	Minutes	ASTM D1363 - 06	Min. 60	>60
13	Sulfur	mg / kg	ASTM D5453 - 09	Max 0.5	LT 0.5
14	Iron	mg / kg	ASTM E394 - 09	Max 0.1	LT 0.1
15	Chloride	mg / kg	IMPCA 002 - 96	Max 0.5	LT 0.5
16	Odor	-	ASTM E346 - 06	Odor Free	Odor Free

Note : The analysis result are only for internal purposes

Verified By, 
Quality Control

Lampiran 16 Sertifikat analisis metilparaben

Certificate of Analysis

Methyl Paraben

Cat. No.:	HY-N0349
CAS No.:	99-76-3
Batch No.:	33250
Chemical Name:	Benzoic acid, 4-hydroxy-, methyl ester

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C ₈ H ₈ O ₃
Molecular Weight:	152.15
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month

Chemical Structure:

ANALYTICAL DATA

Appearance:	White to off-white (Solid)
¹ H NMR Spectrum:	Consistent with structure
Purity (HPLC):	99.71%
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 1 of 1 www.MedChemExpress.com

Lampiran 17 Sertifikat analisis HPMC


Certificate of Analysis
 (Representative Sample Certificate)

Product Name:	Hydroxypropyl Methylcellulose
INCI Name:	Hydroxypropyl methylcellulose
CAS Number:	9004-65-3
Lot Number:	Not available (data may vary slightly with different lots or batches)
Expiration Date:	36 months from production date

Analytical Tests	Specification	Analysis
Appearance	Off-white to yellowish powder	pass
Odor	Characteristic	pass
Viscosity, 2% in water at 20°C	60,000-90,000	83,921
Moisture as packaged	<7.0%	2.5
Sodium Chloride	<5.0%	0.4
Particle Size, thru 40 U.S. Std. Sieve	>99	100

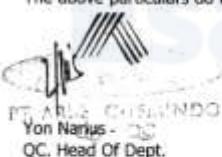
The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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Lampiran 18 Sertifikat analisis CMC-Na

	 PT. ARBE CHEMINDO	HEAD OFFICE : MENARA BUTTERA 32 ND FLOOR Jl. K.H. MAS MAHEYUR KAV 12B JAKARTA 10220 INDONESIA TEL : +(6221) 5745010, 57450111 FAX : +(6221) 57901293 www.arbechem.com																												
		PLANT SITE : KANASAN INDUSTRI JABABEKKA Jl. JAHRENG V Blok H2 CHARANG BEKASI 17530 INDONESIA TEL : +(6221) 8834311 - 12 FAX : +(6221) 8836759, 8834364 www.arbecel.com																												
	CERTIFICATE OF ANALYSIS																													
	ARBECEL F - 400 P																													
	LOT NO. : 1217F147A PRODUCTION DATE : December 08, 2021 EXPIRY DATE : December 08, 2024 SHELF LIFE : If stored under dry and clean conditions in its original packaging, the product has along shelf time.																													
	On the, which the consignment is a part, the following value were determined . They conform to the agreed product specification.																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Item Of Analysis</th> <th style="text-align: left;">Method</th> <th style="text-align: left;">Result</th> <th style="text-align: left;">Spec</th> </tr> </thead> <tbody> <tr> <td>1. Viscosity, 1% solution, 25 °C, Aquadest, 30 rpm, dry basis, spdl 2.</td> <td>ASTM D 1439 - 15</td> <td>440</td> <td>200 - 600 cps</td> </tr> <tr> <td>2. Moisture (as packed)</td> <td>ASTM D 1439 - 15</td> <td>7,0%</td> <td>10% max.</td> </tr> <tr> <td>3. Purity (dry basis)</td> <td>-</td> <td>99,60%</td> <td>99.5% min.</td> </tr> <tr> <td>4. DS</td> <td>ASTM D 1439 - 15</td> <td>0,82</td> <td>0.65 - 0.85</td> </tr> <tr> <td>5. pH- Value</td> <td>HOECHST 9010</td> <td>7,45</td> <td>6.5 - 7.5</td> </tr> <tr> <td>6. Bulk Density (BD)</td> <td>-</td> <td>610 Kg/M3</td> <td>400 min.</td> </tr> </tbody> </table>			Item Of Analysis	Method	Result	Spec	1. Viscosity, 1% solution, 25 °C, Aquadest, 30 rpm, dry basis, spdl 2.	ASTM D 1439 - 15	440	200 - 600 cps	2. Moisture (as packed)	ASTM D 1439 - 15	7,0%	10% max.	3. Purity (dry basis)	-	99,60%	99.5% min.	4. DS	ASTM D 1439 - 15	0,82	0.65 - 0.85	5. pH- Value	HOECHST 9010	7,45	6.5 - 7.5	6. Bulk Density (BD)	-	610 Kg/M3	400 min.
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The above particulars do not release the customer from the obligation to carry out an inspection of good received.																														
 PT. ARBE CHEMINDO Yon Narus - QC. Head Of Dept.																														
<small>Print No. : 1903-772-0003</small>																														