

LAMPIRAN

LAMPIRAN 1 *CERTIFICATE OF ANALYSIS (COA)* EKSTRAK DAUN PEGAGAN

SERTIFIKAT HASIL UJI

Nomor : 2203330155-b
 Nama Sampel : Ekstrak Daun Pegagan
 Uji : Kadar air, Kadar Abu, Kualitatif Saponin, Flavonoid, Kuinon, Triterpenoid, Tanin
 Metode : Gravimetri, TLC
 Tanggal : 17 Maret 2022
 Permintaan : Feronica Dewa Putri
 NIM : 11181203
 Institusi : Fakultas Farmasi Universitas Bhakti Kencana

Hasil Uji Gravimetri

Parameter Uji	Hasil Analisis	Satuan
Kadar Air	2,5	% b/b
Kadar Abu	0,33	% b/b

Hasil Uji Kualitatif

Parameter Uji	Hasil
Saponin	Positif
Flavonoid	Positif
Kuinon	Positif
Triterpenoid	Positif
Tanin	Positif

Divisi Teknis

 Pradekatiwi, S.Si.

Jl. Karanglo, Bumen KG III/519 Yogyakarta 55173
 Telp. 0815-6893377 email : lansi.da@yahoo.com

LAMPIRAN 2 EKSTRAK DAUN PEGAGAN



LAMPIRAN 3 CERTIFICATE OF ANALYSIS (COA) ASAM STEARAT



PT SUMI ASIH

Factory : Jl. Cempaka, Jatimulya, Tambun, Bekasi - Indonesia
(Jl. Raya Jakarta - Bekasi Km. 38)
Phone : (62-21) 8808216 (Hunting) Fax : (62-21) 8800895
Office : ANZ Tower 17 th Floor
Jl. Jend.Sudirman Kav. 33A
Jakarta 10220, INDONESIA

CERTIFICATE OF ANALYSIS

ORDER FOR :
D O. NUMBER : SP1912.001522
PRODUCT : STEARIC ACID
T Y P E : SA 1 8 0 1
QUANTITY : 8,000 Kgs
LOT. NUMBER : 3248902
MANUFACTURING DATE : NOVEMBER 15, 2019
EXPIRY DATE : NOVEMBER 15, 2020

ITEMS	Units	Specification	Results	Method Of Analysis AOCS
Appearance		Beads	Beads	
Iodine Value	(g I ₂ /100 g)	1.0 Max	0.33	Tg 1a - 64
Acid Value	(mg KOH/g)	206 - 212	211.1	Te 1a - 64
Saponification Value	(mg KOH/g)	207 - 213	212.2	TI 1a - 64
Titer	(°C)	54 - 56	54.6	Tr 1a - 64
Colour Lovibond 5% Cell	Red	0.3 Max	0.1	Ce 13b - 45
	Yellow	1.5 Max	0.7	
COMPOSITION IN %				AOCS Ce 1 - 62
Lauric Acid C12	%	1.0 Max	0.19	
Myristic Acid C14	%	2.0 Max	1.53	
Palmitic Acid C16	%	65 Max	61.48	
Stearic Acid C18	%	35 Min	36.41	
Arachidic Acid C20	%	1.0 Max	0.26	
Oleic Acid C18:1	%	1.0 Max	0.13	

Bekasi, December 6, 2019


AGUSTINA SAMPE
Quality Assurance

QI 115-8 SK

LAMPIRAN 4 *CERTIFICATE OF ANALYSIS (COA) VCO***CV. QUADRANT**

CHEMICAL LABORATORY – GLASSWARE – SCIENTIFIC
MEDICAL EQUIPMENT – DIAGNOSTICA & EQUIPMENT MAINTENANCE

Jl. Soekarno Hatta No. 616 Bandung Telp / Fax : 022-7315979

Email : quadrant_lab@yahoo.co.id, Website : cvquadrant.com, Facebook : [CV.Quadrant](https://www.facebook.com/CV.Quadrant)

Twitter : [@quadrantcv](https://twitter.com/quadrantcv)

CERTIFICATE OF ANALYSIS

VCO

TYPE OF SAMPLE : VIRGIN COCONUT OIL

DATA RECEIVED : November 5, 2017

DATE OF ANALYSIS : November 5 to 13, 2017

TESTED FOR : Fatty Acid Distribution

SAMPLE IDENTIFICATION : -

YOUR REFERENCE : -

Parameter	Units	Test Result	Methods
<i>Fatty Acid Distribution:</i>			AOCS Ce 1-62 & Ce 2-66, 2013
• Capprylic Acid C. 8.0	%	7,36	
• Cappric Acid C. 10.0	%	5,85	
• Lauric Acid C. 12.0	%	46,63	
• Myristic Acid C. 14.0	%	18,92	
• Palmitic Acid C. 16.0	%	9,75	
• Stearic Acid C. 18.0	%	3,70	
• Oleic Acid C. 18.1	%	6,37	
• Linoleic C. 18.2	%	1,28	

LAMPIRAN 5 CERTIFICATE OF ANALYSIS (COA) COCAMIDOPROPYL BETAINE

BASF
We create chemistry

Certificate of Analysis

Please note that the certificates of analysis are also conveniently available on your BASF online portal.

CAB

Inspection Certificate 3.1 according to EN 10204

Dehyton® KE-AS

200KG Plastic drums
Purchase Order/Customer Product#
PO847BAJ-JK0821

Material 50439420
Order 6009744215 000010
Delivery 6210702618 000010
Lot 0024958560
Lot/Qty 4000.000 KG
Total 4000.000 KG
Transport B 9009 TIS/B9014TIS

Characteristic Method	Unit	Value	Lower Limit	Upper Limit
Appearance at 25 °C		Clear to slightly turbid, light yellow		
Visual		Conform to Standard		
Odour				
Smell				
Assay as CAPS (MW 368)	%	38,2	29,8	31,8
In-house method no.45				
pH value (as 1s @28 oC)		5,1	4,5	5,5
ISO 4316				
Water content	%	63,1	63,8	64,8
ISO 4317				
Sodium chloride	%	5,8	5,5	6,8
Method no.938196-01				
Color (APHA)		66		288
ISO 6271				
SMCA	ppm	34		98
Method no.978155-01				
SDCA	ppm	8		128
Method no.978155-01				
Production date		28.08.2021		
Expiry date		28.08.2022		

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

This is a computer-generated document. No signature is required.

LAMPIRAN 6 CERTIFICATE OF ANALYSIS (COA) SLS



LAMPIRAN 7 CERTIFICATE OF ANALYSIS (COA) ETANOL

 **PT. BRATACO**
IZIN PBF No. FP.01.04./0455/2017
Jl. Jababeka XIV Blok J-5H, Cikarang - Bekasi Telp. 8935132

Netto 1 L

ALKOHOL 96 %

Batch Original	: 160420P	Batch Repacking	: J0213MK/20
By	: PT. Molindo Raya Industrial (Indonesia)		
Mfg Date	: 04/2020	Kode Repack	: 0117/20/FC
Expire Date	: 04/2023	Tanggal Repack	: 30-04-2020
Kadar	: 94.9 - 98.1 %	Bobot Jenis	: 0.800 - 0.813 g/mL
Indeks Bias	: 1.360 - 1.362	Methanol Test	: Tidak Ungu (-)

dikemas ulang oleh : PT. Brataco
Kualitas terjamin bila masih bersegel

PT. BRATACO
PENGEMAS & PENYALUR BAHAN BAKU FARMASI BERIZIN
KE APOTEK-APOTEK / RUMAH SAKIT

LAMPIRAN 8 CERTIFICATE OF ANALYSIS (COA) ASAM SITRAT



WEIFANG ENSIGN INDUSTRY CO., LTD.

NO.1567, CHANGSHENG STREET, CHANGLE, WEIFANG, SHANDONG PROVINCE, CHINA

Tel: +86-536-6298125 Fax: +86-536-6234587

Certificate of Analysis

Report NO.: YXPG-2021010321

YXSY-R-PG-040

Product: Citric Acid Monohydrate

Date: JAN.01, 2021

Molecular Formula: $C_6H_8O_7 \cdot H_2O$

Invoice no.: FYIN201202A

CAS No.: 5949-29-1

Batch No.: 1MT2012536

Production Date: DEC. 2020

Expiry Date: DEC. 2023

Quantity: 25MT

Item	Unit	Quality Standards	Analysis Results
Characters	----	White or almost white, crystalline powder, colourless crystals or granules. Odorless, has a strongly acid taste. effloresces in dry air. Very soluble in water, freely soluble in ethanol.	Pass
Identification	----	Pass Test	Pass
Appearance of solution	----	Pass Test	Pass
Assay	%	99.5~100.5	99.9
Water	%	7.5~8.8	8.7
Readily Carbonisable Substances	----	Pass Test	Pass
Sulphated Ash (Residue on Ignition)	%	≤ 0.05	0.02
Sulfate	mg/kg	≤ 150	<150
Oxalate	mg/kg	≤ 100	<100
Lead	mg/kg	≤ 0.5	0.1
Arsenic	mg/kg	≤ 1	0.1
Mercury	mg/kg	≤ 1	0.1
Aluminium	mg/kg	≤ 0.2	<0.2
Heavy Metals	mg/kg	≤ 10	<10
Bacterial endotoxins	IU/mg	<0.5	0.1
Conclusion: The product is in conformity with BP/USP/FCC/E330.			

Signature & Stamp:



Analysis date: DEC.27, 2020

LAMPIRAN 9 CERTIFICATE OF ANALYSIS (COA) GLISERIN

PT Ecogreen Oleochemicals



CERTIFICATE OF ANALYSIS

Page 1 of 3

DESCRIPTION : ECOCEROL (REFINED GLYCERIN)

Date : 23.12.2019

MANUFACTURER : PT ECOGREEN OLEOCHEMICALS

SPEC. NO. : 2997-03

REFERENCE : 1010201636

CUST. PO NO. : LJO1911156

CONTAINER NO.	BATCH NO.	QUANTITY	MANUFACTURING DATE
TEGU 3093990	B989-M	80 DR	14.12.2019
TEGU 3098631	B989-M	80 DR	14.12.2019
TEGU 3064400	B989-M	80 DR	14.12.2019
TEGU 3096665	B989-M	80 DR	14.12.2019
TEGU 3080611	B989-M	80 DR	14.12.2019

EXPIRY DATE

14.12.2021

14.12.2021

14.12.2021

14.12.2021

14.12.2021

Analysis	Test Method	Specification		B989-M
		Min	Max	
Assay (wt%)	USP 42	99.7		99.9
Identification A (Infra Red Absorption)*	USP 42	Pass		Pass
Identification B (Limit of DEG and EG):	USP 42			
Diethylene Glycol (wt%) *	USP 42		0.025	<0.025
Ethylene Glycol (wt%) *	USP 42		0.025	<0.025
Identification C (Chromatography) *	USP 42	Pass		Pass
Inorganic Impurities:	USP 42			
Chloride (ppm)	USP 42		10	<10
Sulfate (ppm) *	USP 42		20	<20
Heavy Metals, as Pb (ppm) *	USP 42		5	<5
Residue on Ignition (wt%) *	USP 42		0.01	<0.01
Organic Impurities:	USP 42			
Related Compounds	USP 42			
Individual Impurities (wt%) *	USP 42		0.1	<0.1
Total Impurities (wt%) *	USP 42		1.0	<1.0
Limit of Chlorinated Comp. as Cl (ppm) *	USP 42		30	<30
Fatty Acids and Esters (mL NaOH 0.5N)	USP 42		1.00	0.12
Color (APHA)	AOCS Ea 9 - 65, ASTM D1209		10	3
Specific Gravity at 25/25 °C	APAG-GL-008	1.2612		1.2618
Water (wt%)	USP 42		0.30	0.06
Readily Carbonizable Substances *	USP 22 (271)	Pass		Pass

Certified Correct :

Adrian

Head of Quality Assurance

LAMPIRAN 10 CERTIFICATE OF ANALYSIS (COA) SUKROSA



QIBHUANGD&O LIHUA STARCH CO., LTD

Commodity: Dextrose Monohydrate LIHUA BRAND

DATE: DEC 09, 2008

Quantity	100T	Pemisah Seksi (Berkelanjutan)	08120	Inspection Stnd/	BP98 BASE
		Batch No	S	rd	
Manufacture Date		Dec 03, 2008	Inspection Date	Dec 05, 2008	Pemisah Seksi (Berkelanjutan)
				Date of Expiry	Dec 03, 2010
Serial Number	Item	Standard			
1	Appearance	White crystal or powder, odourless and a little sweet			Inspection Result
		Pemisah Seksi (Berkelanjutan)			pass
3	Specific weight	99.5% min			99.52%
4	rotation	+52 ~ +53.3 degree			dessee
4	acidity (ml)	0.6 ml/g max			0.20 ml
5	chloride, %	0.0125 max			0.005
		0.02 max			
7	insoluble matter in alcohol	5 mg/g			0.00%
6	soluble and insoluble starch	Up to stipulation			pass
8	moisture, %				
10	residue on ignition, %	Pemisah Seksi (Berkelanjutan)			
11	iron, %	9.5 max			6.20
12	heavy metal, %	0.02 max			0.06
13	arsenic, %	0.0001 max			0.0004
14	color dots, cfu/50g	40 max			17
15	bacterium total	Max 1000 cfu/g			0
16	e. coli 100/g	negative			eligible
17	Packing	In 25kg kraft paper			
18	Storage	Kept in dry and cool place			
		24 months max			
Remarks	UP TO THE STANDARD CHECKER: CAO YAN EXAMINANT: CHEN XING				

LAMPIRAN 11 CERTIFICATE OF ANALYSIS (COA) BHT



杭州科佰特科技有限公司
HANGZHOU BETTER CHEMTECH LTD.

Let's do Better

CERTIFICATE OF ANALYSIS

PRODUCT NAME	Butylated hydroxytoluene (BHT) TECHNICAL GRADE	QUANTITY	10000KG
BATCH NO	23200315	TESTING DATE	2020.03.15
EXPIRY DATE	2020.09.15	MANUFACTURE DATE	2020.03.15
NO	ITEMS	SPECIFICATION	RESULTS
1	Colour, Appearance	White crystal or crystalline powder	White crystalline powder
2	Melting point °C ≥	69	69.7
3	Butylated hydroxytoluene % ≥	99.9	99.97
4	Chroma ≡	50	10
5	Free Phenol % ≤	0.02	0.002
6	Ignition Residue % ≤	0.005	0.003
6	Sulphate % ≤	0.002	Pass
7	Arsenic % ≤	1mg/kg	Pass
8	(Pb)Heavy Metal % ≤	4mg/kg	Pass
9	Moisture % ≤	0.05	0.034
10	CONCLUSION		PASSED

LAMPIRAN 12 CERTIFICATE OF ANALYSIS (COA) NaOH



PT Asahimas Chemical

CERTIFICATE OF ANALYSIS

NO : FC30-64/08/02/2021
 SJ. NO : 0012015221
 Name of Customer : AKR CORFORINDO - MARUNDA
 Area : JAKARTA TIMUR & UTARA
 Commodity : Caustic Soda Flake 98% (NaOH)

This is to certify that the materials shipped have the following typical properties :
GRADE : FCS CROSS BAG

NO ITEM	UNIT	METHOD	SPECIFICATION	W0221A1	W0221B3	W0221B2
1 Fe	ppm wt	SNI 0074:2011	10 MAX	1.6	1.6	1.6
2 Na ₂ CO ₃	% wt	SNI 0074:2011	0.4 MAX	0.10	0.10	0.10
3 Na ₂ SO ₄	ppm wt	SNI 0074:2011	400 MAX	10	10	7
4 NaCl	ppm wt	SNI 0074:2011	300 MAX	43	43	43
5 NaOH	% wt	SNI 0074:2011	98.0 MIN	98.4	98.4	98.4

February 08, 2021

*)

NURHIDAYAT

MANAGER

QUALITY ASSURANCE DEPT.

All the analysis are carried out to the best of our knowledge and high responsibility. Caustic Soda Flake is hygroscopic, easy to absorb moisture and CO₂ gas from the air. Even the packing condition is still in good and not leakage, the weight increase about 0.1% every month and it cause purity decrement about 0.1% without reducing the weight (content) of NaOH in the product.

*) This Certificate is composed using computerised system, hence no signature.

LAMPIRAN 13 *CERTIFICATE OF ANALYSIS (COA) LAVENDER OIL***CERTIFICATE OF ANALYSIS**

Issued Date: 02 July 2021

Product Name : **LAVENDER OIL**
Botanical Name : *Lavandula Angustifolia*
Product Code : 160018
Batch Number : 210609/177335
Appearance : Clear Mobile Liquid
Color : Colorless – Pale Yellow
Odor : Fresh, Sweet, Floral, Herbaceous
Production Date : June 09, 2021
Shelf Life : 24 Months in Fully Sealed Containers
Quantity of Purchased : 2 Kg
Packaging : **2 Bottles @1 Kg**

Technical Analysis:

Test Item	Specification	Result
Density (@20 ⁰ C)	0.8722 – 0.8862	0.8784
Specific Gravity (@20 ⁰ C)	0.8738 – 0.8878	0.8800
Refractive Index (@20 ⁰ C)	1.4529 – 1.4669	1.4659
Solubility	Insoluble in Water	Conforms

Storage Condition : Store unopened containers with temperature between 10°C to 25°C

This document has been electronically produced and does not require any signature

#3/20200002

LAMPIRAN 14 *CERTIFICATE OF ANALYSIS (COA)* AKUADES**CERTIFICATE OF ANALYSIS**

Product Name	: AQUADEST	Molecular Weight	: 18.02 g/mol
Catalog No.	: A.1078	Batch No.	: 1088914
Grade	: Laboratory Reagent	Manufacturing Date	: Oct 06, 2021
Formula	: H ₂ O	Expire Date	: Oct, 2023
Cas No.	: 7732-18-5		

No.	ITEM TEST	UNITS	SPECIFICATION	RESULTS
1.	Appearance	-	Clear and free of visible particulate	Passes test
2.	Conductivity at 25 °C	uS/cm	≤ 1.0	0.16
3.	pH at 25 °C	-	5.5 - 8.0	7.8
4.	Total Dissolve Solid (TDS)	ppm	≤0.5	0.08
5.	Residu on evaporation	ppm	≤ 1.0	NIL
6.	Total Organic Carbon (TOC)	ppm	≤50	<50
7.	Total Hardness	ppm	≤ 0.1	NIL
8.	Chloride (Cl)	ppm	≤0.5	0.3
9.	Silica	ppm	≤0.5	0.0188
10.	Iron (Fe)	ppm	≤ 0.1	0.0379
11.	Aromatic Hydrocarbon	ppm	Free of Hydrocarbon	NIL

LAMPIRAN 15 PEMBUATAN SABUN PADAT TRANSPARAN



Reaksi Penyabunan



Hasil sabun sebelum dicetak

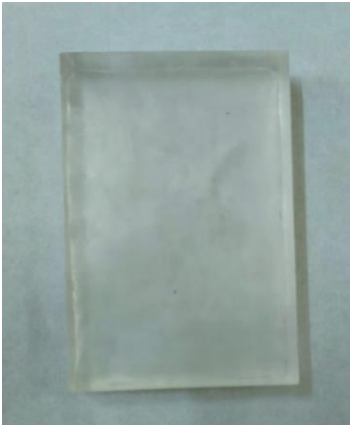
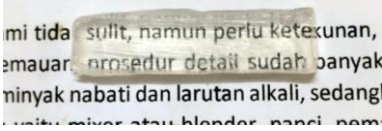
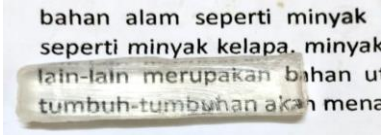


Sabun dicetak di cetakan sabun

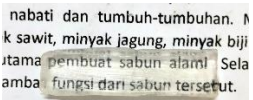
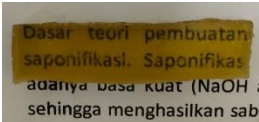
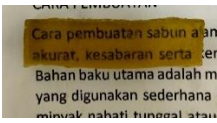


Sabun setelah dicetak

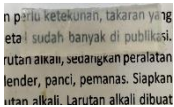
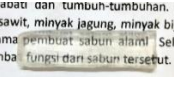
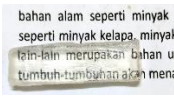
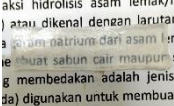
LAMPIRAN 16 HASIL OPTIMASI BASIS SABUN PADAT TRANSPARAN

 Basis Formula 1	 Basis Formula 2
 Uji Transparansi Basis Formula 1	 Uji Transparansi Basis Formula 1

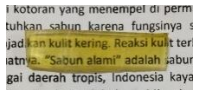
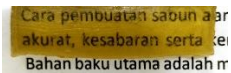
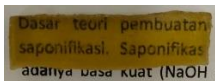
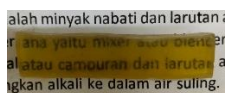
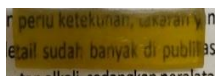
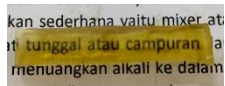
LAMPIRAN 17 Uji Evaluasi Sabun Padat Transparan

 Sabun F0	 Uji transparansi	 Uji kekerasan	 Uji tinggi busa
 pH	 Kadar air	 Uji Pembasah	 Uji efektivitas sabun
 Sabun F1	 Uji transparansi	 Uji kekerasan	 Uji tinggi busa
 pH	 Kadar air	 Uji Pembasah	 Uji efektivitas sabun
 Sabun F2	 Uji Transparansi	 Uji Kekerasan	 Uji Tinggi Busa
 pH	 Kadar air	 Uji Pembasah	 Uji Efektivitas Sabun

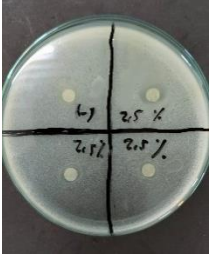
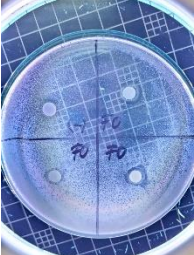
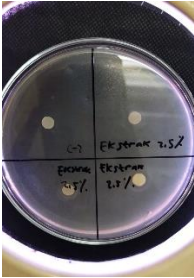
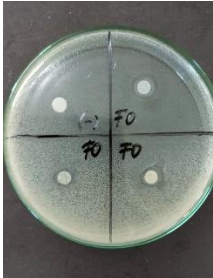
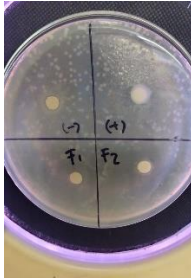
LAMPIRAN 18 STABILITAS SUHU RUANG 28 HARI

Hari ke-0 	Uji Transparansi hari ke-0  n perlu ketekunan, takaran yang eta i sudah banyak di publikasi. rutan akan, sedangkan peralatan lender, panci, pemanas. Siapkan urutan alkali. Larutan alkali dibuat	Uji pH hari ke-0 	Uji Kekerasan hari ke-0 	Uji Tinggi Busa hari ke-0 
Hari ke-7 	Uji Transparansi hari ke-7  soat dan tumbuh-tumbuhan, A sawit, minyak jagung, minyak biji uma pembuat sabun alami. Sela nba fungsi dari sabun tersebut.	Uji pH hari ke-7 	Uji Kekerasan hari ke-7 	Uji Tinggi Busa hari ke-7 
Hari ke-14 	Uji Transparansi hari ke-14  bahan alam seperti minyak seperti minyak kelapa, minyak latri-latri merupakan bahan ut tumbuh-tumbuhan akan mena	Uji pH hari ke-14 	Uji Kekerasan hari ke-14 	Uji Tinggi Busa hari ke-14 
Hari ke-21 	Uji Transparansi hari ke-21  mi tidak sulit, namun perlu ketekunan, amauar. prosedur detail sudah banyak minyak nabati dan larutan alkali, sedang	Uji pH hari ke-21 	Uji Kekerasan hari ke-21 	Uji Tinggi Busa hari ke-21 
Hari ke-28 	Uji Transparansi hari ke-28  aksi hidrolisis asam lemak/r atau dikenal dengan larutan a asam pabrium dari asam latri ebuat sabun cair maupun g membedakan adalah jenis da) digunakan untuk membuat	Uji pH hari ke-28 	Uji Kekerasan hari ke-28 	Uji Tinggi Busa hari ke-28 

LAMPIRAN 19 STABILITAS METODE *CYCLING TEST*

Cycling Test Siklus1 	Uji Transparansi1 	Uji Kekerasan 1 	Uji Tinggi Busa 1 	Uji pH Siklus 1 
Cycling Test Siklus2 	Uji Transparansi 2 	Uji Kekerasan 2 	Uji Tinggi Busa 2 	Uji pH Siklus 2 
Cycling Test Siklus3 	Uji Transparansi 3 	Uji Kekerasan 3 	Uji Tinggi Busa 3 	Uji pH Siklus 3 
Cycling Test Siklus4 	Uji Transparansi 4 	Uji Kekerasan 4 	Uji Tinggi Busa 4 	Uji pH Siklus 4 
Cycling Test Siklus5 	Uji Transparansi 5 	Uji Kekerasan 5 	Uji Tinggi Busa 5 	Uji pH Siklus 5 
Cycling Test Siklus6 	Uji Transparansi 6 	Uji Kekerasan 6 	Uji Tinggi Busa 6 	Uji pH Siklus 6 

LAMPIRAN 20 UJI AKTIVITAS ANTIBAKTERI SABUN PADAT TRANSPARAN

<i>Staphylococcus aureus</i>  Ekstrak Pegagan 2,5%	<i>Staphylococcus aureus</i>  Basis sediaan	<i>Staphylococcus aureus</i>  Formula 1 dan Formula 2
<i>Escherichia coli</i>  Ekstrak Pegagan 2,5%	<i>Escherichia coli</i>  Basis sediaan	<i>Escherichia coli</i>  Formula 1 dan Formula 2

Staphylococcus aureus

Formula	Diamater Hambat(mm)			Rata-rata	Kategori Hambat
	1	2	3		
Kontrol (+)	11	10	11	10,00±0,00	Sedang
Kontrol (-)	-	-	-	-	-
Ekstrak Pegagan	8	8	8	8,0±0,00	Sedang
Basis tanpa etanol	-	-	-	-	-
F0	6	7	6	6,33±0,58	Sedang
F1	10	10	9	9,67±0,58	Sedang
F2	10	10	10	10,00±0,00	Sedang

Escherichia coli

Formula	Diamater Hambat(mm)			Rata-rata	Kategori Hambat
	1	2	3		
Kontrol (+)	9	10	9	9,33±0,58	Sedang
Kontrol (-)	-	-	-	-	-
Ekstrak Pegagan	7	8	7,5	7,50±0,50	Sedang
Basis tanpa etanol	-	-	-	-	-
F0	6	6	6,5	6,17±0,29	Sedang
F1	9	8	9	8,67±0,58	Sedang
F2	10	10	9	9,67±0,58	Sedang

LAMPIRAN 21 HASIL PENGUKURAN EVALUASI F0,F1, DAN F2

1. Pengukuran pH

Formula	1	2	3	Rata-rata	SD
F0	7,37	7,49	7,53	7,46	0,08
F1	8,64	8,69	8,68	8,67	0,03
F2	8,69	8,66	8,68	8,68	0,02

2. Pengukuran Tinggi Busa

Formula	1	2	3	Rata-rata (mm)	SD
F0	20	20	22	20,67	1,15
F1	22	24	22	22,67	1,15
F2	24	24	24	24,00	0,00

3. Pengukuran Kekerasan

Formula	1	2	3	Rata-rata (kg)	SD
F0	5	4	5	4,67	0,58
F1	4	4	4	4,00	0,00
F2	4	5	4	4,33	0,58

4. Pengukuran Kadar Air

Formula	1	2	3	Rata-rata (%)	SD
F0	19,73	16,22	18,79	18,25	1,82
F1	24	29,10	26,20	26,43	2,56
F2	19,3	18,82	20,26	19,46	0,73

5. Pengukuran Daya Pembasah

Formula	1	2	3	Rata-rata (Detik)	SD
F0	16	14	12	14,00	2,00
F1	11	13	15	13,00	2,00
F2	13	15	14	14,00	1,00

LAMPIRAN 22 HASIL PENGUKURAN TINGGI BUSA SEDIAAN STABILITAS SUHU RUANG

Formula	Siklus	1	2	3	Rata-Rata	SD
F0	1	20	19	20	19,67	0,58
	7	22	22	22	22,00	0,00
	14	24	22	24	23,33	1,15
	21	26	26	26	26,00	0,00
	28	28	28	28	28,00	0,00
F1	1	18	20	18	18,67	1,15
	7	20	22	20	20,67	1,15
	14	22	20	24	22,00	2,00
	21	24	24	26	24,67	1,15
	28	26	26	26	26,00	0,00
F2	1	18	18	18	18,00	0,00
	7	22	20	22	21,33	1,15
	14	22	22	22	22,00	0,00
	21	24	22	24	23,33	1,15
	28	26	24	26	25,33	1,15

LAMPIRAN 23 HASIL ANALISIS ONE WAY ANOVA PENGUKURAN TINGGI BUSA STABILITAS SUHU RUANG

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
TinggiBusa	Formula 0	,188	15	,164	,915	15	,162
	Formula 1	,192	15	,141	,884	15	,055
	Formula 2	,233	15	,027	,898	15	,088

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
TinggiBusa	Based on Mean	1,127	2	42	,334
	Based on Median	1,005	2	42	,375
	Based on Median and with adjusted df	1,005	2	40,409	,375
	Based on trimmed mean	1,127	2	42	,333

Test of Homogeneity of Variances

TinggiBusa

Levene Statistic	df1	df2	Sig.
2,547 ^a	5	38	,044

a. Groups with only one case are ignored in computing the test of homogeneity of variance for Formula.

ANOVA

TinggiBusa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6,512	6	1,085	1,756	,135
Within Groups	23,488	38	,618		
Total	30,000	44			

LAMPIRAN 24 HASIL PENGUKURAN pH STABILITAS SUHU RUANG

Formula	siklus	1	2	3	Rata-Rata	SD
F0	1	8,15	8,1	8,15	8,13	0,03
	7	8,02	8	8,04	8,02	0,02
	14	8	7,97	7,98	7,98	0,02
	21	7,91	7,88	7,84	7,88	0,04
	28	7,8	7,75	7,78	7,78	0,03
F1	1	8,79	8,74	8,77	8,77	0,03
	7	8,68	8,69	8,74	8,70	0,03
	14	8,69	8,68	8,65	8,67	0,02
	21	8,66	8,64	8,66	8,65	0,01
	28	8,62	8,59	8,57	8,59	0,03
F2	1	8,82	8,84	8,81	8,82	0,02
	7	8,77	8,79	8,76	8,77	0,02
	14	8,69	8,66	8,68	8,68	0,02
	21	8,59	8,62	8,57	8,59	0,03
	28	8,5	8,46	8,48	8,48	0,02

LAMPIRAN 25 HASIL ANALISIS ONE WAY ANOVA PENGUKURAN pH STABILITAS SUHU RUANG

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	Formula 0	,137	15	,200*	,952	15	,564
	Formula 1	,157	15	,200*	,972	15	,886
	Formula 2	,159	15	,200*	,931	15	,279

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
pH	Based on Mean	4,997	2	42	,011
	Based on Median	4,124	2	42	,023
	Based on Median and with adjusted df	4,124	2	34,676	,025
	Based on trimmed mean	4,931	2	42	,012

Test of Homogeneity of Variances

pH			
Levene Statistic	df1	df2	Sig.
4,997	2	42	,011

ANOVA

pH					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5,122	2	2,561	207,834	,000
Within Groups	,518	42	,012		
Total	5,640	44			

Multiple Comparisons

Dependent Variable: pH

	(I)	(J)	Mean Difference (I- J)	Std. Error	Sig.	95% Confidence Interval	
	Formula	Formula				Lower Bound	Upper Bound
Bonferroni	0	1	-,72000*	,04054	,000	-,8211	-,6189
		2	-,71133*	,04054	,000	-,8124	-,6103
	1	0	,72000*	,04054	,000	,6189	,8211
		2	,00867	,04054	1,000	-,0924	,1097
	2	0	,71133*	,04054	,000	,6103	,8124
		1	-,00867	,04054	1,000	-,1097	,0924
Games- Howell	0	1	-,72000*	,03687	,000	-,8132	-,6268
		2	-,71133*	,04695	,000	-,8275	-,5952
	1	0	,72000*	,03687	,000	,6268	,8132
		2	,00867	,03695	,970	-,0847	,1021
	2	0	,71133*	,04695	,000	,5952	,8275
		1	-,00867	,03695	,970	-,1021	,0847

*. The mean difference is significant at the 0.05 level.

LAMPIRAN 26 HASIL PENGUKURAN KEKERASAN STABILITAS SUHU RUANG

Formula	Siklus	1	2	3	Rata-Rata	SD
F0	1	4,5	5	5,5	5,00	0,50
	7	5	6	4,5	5,17	0,76
	14	6	5,5	5	5,50	0,50
	21	5,5	6	5,5	5,67	0,29
	28	6	5,5	6	5,83	0,29
F1	1	4,5	4	3,5	4,00	0,50
	7	4,5	4	4,5	4,33	0,29
	14	5	4,5	4	4,50	0,50
	21	5	4,5	5	4,83	0,29
	28	5,5	5	4,5	5,00	0,50
F2	1	5	5	4,5	4,83	0,29
	7	4	5	4,5	4,50	0,50
	14	5	4	5,5	4,83	0,76
	21	5	5,5	5	5,17	0,29
	28	5,5	6	5	5,50	0,50

LAMPIRAN 27 HASIL ANALISIS ONE WAY ANOVA PENGUKURAN KEKERASAN STABILITAS SUHU RUANG

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Kekerasan	Formula 0	,217	15	,056	,862	15	,026
	Formula 1	,208	15	,081	,932	15	,293
	Formula 2	,258	15	,008	,910	15	,137

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Kekerasan	Based on Mean	,077	2	42	,926
	Based on Median	,042	2	42	,959
	Based on Median and with adjusted df	,042	2	41,113	,959
	Based on trimmed mean	,050	2	42	,952

Test of Homogeneity of Variances

Kekerasan

Levene Statistic	df1	df2	Sig.
1,907 ^a	4	39	,129

a. Groups with only one case are ignored in computing the test of homogeneity of variance for Formula.

ANOVA

Kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5,054	5	1,011	1,580	,188
Within Groups	24,946	39	,640		
Total	30,000	44			

LAMPIRAN 28 HASIL PENGUKURAN TINGGI BUSA STABILITAS METODE
CYCLING TEST

Formula	Siklus	1	2	3	Rata-Rata	SD
F0	1	20	20	20	20,00	0,00
	2	20	22	20	20,67	1,15
	3	22	26	24	24,00	2,00
	4	28	30	28	28,67	1,15
	5	30	30	30	30,00	0,00
	6	32	32	32	32,00	0,00
F1	1	18	18	18	18,00	0,00
	2	16	18	15	16,33	1,53
	3	19	19	17	18,33	1,15
	4	22	22	21	21,67	0,58
	5	24	24	26	24,67	1,15
	6	28	30	28	28,67	1,15
F2	1	19	18	18	18,33	0,58
	2	20	20	19	19,67	0,58
	3	22	22	22	22,00	0,00
	4	26	26	26	26,00	0,00
	5	28	28	30	28,67	1,15
	6	30	32	32	31,33	1,15

LAMPIRAN 29 HASIL ANALISIS ONE WAY ANOVA PENGUKURAN TINGGI BUSA
STABILITAS METODE CYCLING TEST

Tests of Normality							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
TinggiBusa	Formula 0	,201	7	,200*	,918	7	,453
	Formula 1	,250	7	,200*	,892	7	,288
	Formula 2	,190	7	,200*	,905	7	,359

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variance					
		Levene Statistic	df1	df2	Sig.
TinggiBusa	Based on Mean	,287	2	18	,754
	Based on Median	,212	2	18	,811
	Based on Median and with adjusted df	,212	2	16,496	,811
	Based on trimmed mean	,290	2	18	,752

Test of Homogeneity of Variances

TinggiBusa

Levene Statistic	df1	df2	Sig.
,287	2	18	,754

ANOVA

TinggiBusa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	65,755	2	32,877	1,225	,317
Within Groups	483,074	18	26,837		
Total	548,829	20			

LAMPIRAN 30 HASIL PENGUKURAN pH STABILITAS METODE *CYCLING TEST*

Formula	siklus	1	2	3	Rata-Rata	SD
F0	1	7,83	7,84	7,82	7,83	0,01
	2	7,8	7,78	7,75	7,78	0,03
	3	7,77	7,75	7,78	7,77	0,02
	4	7,76	7,72	7,74	7,74	0,02
	5	7,73	7,75	7,72	7,73	0,02
	6	7,72	7,68	7,74	7,71	0,03
F1	1	8,34	8,38	8,4	8,37	0,03
	2	8,39	8,36	8,34	8,36	0,03
	3	8,36	8,32	8,34	8,34	0,02
	4	8,34	8,32	8,3	8,32	0,02
	5	8,28	8,31	8,24	8,28	0,04
	6	8,24	8,26	8,22	8,24	0,02
F2	1	8,62	8,59	8,57	8,59	0,03
	2	8,5	8,55	8,5	8,52	0,03
	3	8,48	8,49	8,51	8,49	0,02
	4	8,46	8,5	8,45	8,47	0,03
	5	8,45	8,4	8,38	8,41	0,04
	6	8,38	8,36	8,32	8,35	0,03

LAMPIRAN 31 HASIL ANALISIS ONE WAY ANOVA PENGUKURAN pH STABILITAS
METODE CYCLING TEST

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	Formula 0	,205	7	,200*	,926	7	,518
	Formula 1	,157	7	,200*	,946	7	,693
	Formula 2	,123	7	,200*	,982	7	,967

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
pH	Based on Mean	1,145	2	18	,340
	Based on Median	1,081	2	18	,360
	Based on Median and with adjusted df	1,081	2	14,742	,365
	Based on trimmed mean	1,159	2	18	,336

Test of Homogeneity of Variances

pH				
Levene Statistic		df1	df2	Sig.
1,145		2	18	,340

ANOVA

pH					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1,965	2	,983	181,692	,000
Within Groups	,097	18	,005		
Total	2,062	20			

Multiple Comparisons

Dependent Variable: pH

	(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
	Formula	Formula				Lower Bound	Upper Bound
Bonferroni	0	1	-,55000 [*]	,03931	,000	-,6537	-,4463
		2	-,71571 [*]	,03931	,000	-,8195	-,6120
	1	0	,55000 [*]	,03931	,000	,4463	,6537
		2	-,16571 [*]	,03931	,002	-,2695	-,0620
	2	0	,71571 [*]	,03931	,000	,6120	,8195
		1	,16571 [*]	,03931	,002	,0620	,2695
Games- Howell	0	1	-,55000 [*]	,03108	,000	-,6332	-,4668
		2	-,71571 [*]	,04377	,000	-,8352	-,5962
	1	0	,55000 [*]	,03108	,000	,4668	,6332
		2	-,16571 [*]	,04188	,008	-,2820	-,0494
	2	0	,71571 [*]	,04377	,000	,5962	,8352
		1	,16571 [*]	,04188	,008	,0494	,2820

*. The mean difference is significant at the 0.05 level.

LAMPIRAN 32 HASIL PENGUKURAN KEKERASAN STABILITAS METODE
CYCLING TEST

Formula	siklus	1	2	3	Rata-Rata	SD
F0	1	5	5	5	5,00	0,00
	2	5	5	4,5	4,83	0,29
	3	5	5	5	5,00	0,00
	4	5	4,5	5	4,83	0,29
	5	5	5	5	5,00	0,00
	6	5	4	5	4,67	0,58
F1	1	5	4,5	4	4,50	0,50
	2	5	4	4	4,33	0,58
	3	4	5	4	4,33	0,58
	4	4	4	4	4,00	0,00
	5	4	4,5	4	4,17	0,29
	6	4	4	4	4,00	0,00
	5	4	4,5	4	4,17	0,29
	6	4	4	4	4,00	0,00
F2	1	5	4,5	5	4,83	0,29
	2	4	5	5	4,67	0,58
	3	5	4,5	4	4,50	0,50
	4	4	4	5	4,33	0,58
	5	4,5	4	4	4,17	0,29
	6	4	4	4	4,00	0,00

LAMPIRAN 33 HASIL ANALISI ONE WAY ANOVA PENGUKURAN KEKERASAN STABILITAS METODE CYCLING TEST

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Kekerasan	Formula 0	,265	7	,148	,914	7	,428
	Formula 1	,159	7	,200*	,935	7	,597
	Formula 2	,110	7	,200*	,978	7	,951

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Kekerasan	Based on Mean	1,464	2	18	,257
	Based on Median	1,414	2	18	,269
	Based on Median and with adjusted df	1,414	2	17,237	,270
	Based on trimmed mean	1,459	2	18	,259

Test of Homogeneity of Variances

Kekerasan

Levene Statistic	df1	df2	Sig.
,621 ^a	6	13	,711

a. Groups with only one case are ignored in computing the test of homogeneity of variance for Formula.

ANOVA

Kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4,000	7	,571	,743	,642
Within Groups	10,000	13	,769		
Total	14,000	20			

LAMPIRAN 34 : Format Surat Pernyataan Bebas Plagiasi

02.66.00/FRM-03/AKD-SPMI

LAMPIRAN 34 : Format Surat Pernyataan Bebas Plagiasi

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,

Nama : Feronica Dewa Putri

N P M : 11181203

adalah mahasiswa Fakultas Farmasi, Universitas Bhakti Kencana, menyatakan dengan sesungguhnya bahwa Naskah Tugas Akhir/Skripsi yang saya tulis dengan judul:

**OPTIMASI FORMULA SABUN PADAT TRANSPARAN EKSTRAK DAUN PEGAGAN
(*Centella asiatica* (L.) Urban) DENGAN KHASIAT ANTIBAKTERI**

adalah benar-benar merupakan hasil karya saya sendiri. Apabila di kemudian hari diketahui bahwa isi Naskah Skripsi ini merupakan hasil plagiasi, maka saya bersedia menerima sanksi berupa pembatalan kelulusan dan atau pencabutan gelar yang saya peroleh.

Demikian surat pernyataan ini saya buat untuk dapat dipergunakan sebagaimana mestinya.

Bandung, 08 Agustus 2022

Yang membuat pernyataan,



Feronica Dewa Putri

NPM . 11181203

LAMPIRAN 35 : Format Surat Persetujuan untuk dipublikasikan di media online

02.66.00/FRM-03/AKD-SPMI

LAMPIRAN 35 : Format Surat Persetujuan untuk dipublikasikan di media online

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,

Nama : Feronica Dewa Putri

N P M : 11181203

Menyatakan bahwa demi kepentingan perkembangan ilmu pengetahuan,
saya menyetujui abstrak Skripsi yang saya tulis dengan judul:

**OPTIMASI FORMULA SABUN PADAT TRANSPARAN EKSTRAK DAUN PEGAGAN
(*Centella asiatica* (L.) Urban) DENGAN KHASIAT ANTIBAKTERI**

Untuk dipublikasikan atau ditampilkan di internet atau media lain yaitu Digital Library
Perpustakaan Universitas Bhakti Kencana untuk kepentingan akademik, sebatas sesuai
dengan Undang-Undang Hak Cipta.

Demikian surat pernyataan ini saya buat untuk dapat dipergunakan sebagaimana
mestinya.

Bandung, 08 Agustus 2022

Yang membuat pernyataan,



Feronica Dewa Putri

NPM. 11181203