

LAMPIRAN

Lampiran 1. Surat Diterminasi Tanaman



BRIN
BADAN RISET
DAN INOVASI NASIONAL

DIREKTORAT PENGELOLAAN KOLEKSI ILMIAH

Gedung B.J. Habibie JL. M.H Thamrin No. 8, Jakarta Pusat 10340

Telepon/WA:+62811 1064 6760; Surel: diti-pki@brin.go.id

Laman: www.brin.go.id

Nomor : B-1604/II.6.2/IR.01.02/7/2023
Lampiran : -
Perihal : Hasil Identifikasi/Determinasi Tumbuhan

6 Juli 2023

Yth.
Bpk./Ibu/Sdr(i) **Eva Widiyanti**
NIM : 20190311018
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.	Delima putih	<i>Punica granatum</i> L.	Lythraceae

Demikian, semoga berguna bagi Saudara.

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

 TT ELEKTRONIK

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



Dokumen ini diandatangani secara elektronik menggunakan sertifikat dari BSRF, silakan lakukan verifikasi pada dokumen elektronik yang dapat diunduh dengan melakukan scan QR Code

Lampiran 2. Perhitungan Susut Pengeringan


1. Kulit buah delima putih

- a. Berat sampel basah (A) : 9.000 gram
- b. Berat sampel kering (B) : 1.000 gram
- c. Prosentase bobot kering = $\frac{\text{Bobot kering}}{\text{Bobot basah}} \times 100 \%$
 $= \frac{1.000 \text{ gram}}{9.000 \text{ gram}} \times 100 \%$
 $= 11,1\%$

Lampiran 3. Perhitungan Rendemen

- a. Rendemen = $= \frac{\text{Bobot Akhir (ekstrak)}}{\text{Bobot awal (simplisia)}} \times 100 \%$
- b. Rendemen = $\frac{20,8 \text{ gram}}{300 \text{ gram}} \times 100 \%$
 $= 6,9 \%$

Lampiran 4. Pembuatan Ekstrak

No.	Gambar	Keterangan
1.		Penghalusan Simplisia

2.		Pengayakan simplisia
3.		Penimbangan simplisia
4.		Proses maserasi
5.		Penyaringan

6.		<i>Rotary evaporator</i>
7.		Hasil ekstrak

Lampiran 5. Penimbangan Bahan Formula

Formula I

$$\text{Ekstrak kulit buah delima putih} = \frac{1}{100} \times 100\% = 1 \text{ gram}$$

$$\text{Minyak zaitun} = \frac{15}{100} \times 100\% = 15 \text{ mL}$$

$$\text{Kalium hidroksida} = \frac{2}{100} \times 100\% = 2 \text{ gram}$$

$$\text{Na-Cmc} = \frac{1,5}{100} \times 100\% = 1,5 \text{ gram}$$

$$\text{Asam Stearat} = \frac{2}{100} \times 100\% = 2 \text{ gram}$$

$$\text{Sodium lauryl sulfat} = \frac{2,5}{100} \times 100\% = 2,5 \text{ gram}$$

$$\text{BHT} = \frac{0,5}{100} \times 100\% = 500 \text{ mg}$$

$$\text{Grape fragrance} = 1 \text{ tetes}$$

$$\begin{aligned} \text{Aquadest} &= 100 - (1+15+2+1,5+2+2,5+0,5+1) \\ &= 100 - 25,5 \text{ mL} \\ &= 74,5 \text{ mL} \end{aligned}$$

Formula II

$$\text{Ekstrak kulit buah delima putih} = \frac{1,5}{100} \times 100\% = 1,5 \text{ gram}$$

$$\text{Minyak zaitun} = \frac{15}{100} \times 100\% = 15 \text{ mL}$$

$$\text{Kalium hidroksida} = \frac{2}{100} \times 100\% = 2 \text{ gram}$$

$$\text{Na-Cmc} = \frac{1,5}{100} \times 100\% = 1,5 \text{ gram}$$

$$\text{Asam Stearat} = \frac{2}{100} \times 100\% = 2 \text{ gram}$$

$$\text{Sodium lauryl sulfat} = \frac{2,5}{100} \times 100\% = 2,5 \text{ gram}$$

$$\text{BHT} = \frac{0,5}{100} \times 100\% = 500 \text{ mg}$$

$$\text{Grape fragrance} = 1 \text{ tetes}$$

$$\begin{aligned} \text{Aquadest} &= 100 - (1,5+15+2+1,5+2+2,5+0,5+1) \\ &= 100 - 26 \text{ mL} \\ &= 74 \text{ mL} \end{aligned}$$

Formula III

$$\text{Ekstrak kulit buah delima putih} = \frac{2}{100} \times 100\% = 2 \text{ gram}$$

$$\text{Minyak zaitun} = \frac{15}{100} \times 100\% = 15 \text{ mL}$$

$$\text{Kalium hidroksida} = \frac{2}{100} \times 100\% = 2 \text{ gram}$$

$$\text{Na-Cmc} = \frac{1,5}{100} \times 100\% = 1,5 \text{ gram}$$

$$\text{Asam Stearat} = \frac{2}{100} \times 100\% = 2 \text{ gram}$$

$$\text{Sodium lauryl sulfat} = \frac{2,5}{100} \times 100\% = 2,5 \text{ gram}$$

$$\text{BHT} = \frac{0,5}{100} \times 100\% = 500 \text{ mg}$$

Grape fragrance = 1 tetes

Aquadest = $100 - (2+15+2+1,5+2+2,5+0,5+1)$

= $100 - 26,5$ mL

= 73,5 ml

Lampiran 6. Perhitungan Bobot Jenis

1. Siklus 0

Formula I					
F1	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} ($\frac{g}{ml}$)
	17,78	42,21	43,27	25 ml	1.043
Formula II					
F2	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} ($\frac{g}{ml}$)
	17,79	42,18	43,28	25 mL	1.045
Formula III					
F3	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} ($\frac{g}{ml}$)
	17,78	42,21	43,33	25 ml	1.045

$$FI : \frac{43,27-17,78}{42,21-17,78} = \frac{25,49}{24,43} = 1,043$$

$$FII : \frac{43,28-17,79}{42,18-17,79} = \frac{25,49}{24,39} = 1,045$$

$$FIII : \frac{43,33-17,78}{42,21-17,78} = \frac{25,55}{24,43} = 1,045$$

2. Siklus 1

Formula I					
F1	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ sabun (g/ml)
	17,82	42,21	43,27	25 ml	1.043
Formula II					
F2	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ sabun (g/ml)
	17,80	42,20	43,31	25 mL	1.020
Formula III					
F3	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ sabun (g/ml)
	17,81	42,30	43,33	25 ml	1.020

$$FI : \frac{43,27-17,82}{42,21-17,82} = \frac{25,45}{24,39} = 1,043$$

$$FII : \frac{43,31-17,80}{42,20-17,80} = \frac{25,51}{24,4} = 1,045$$

$$FIII : \frac{43,33-17,81}{42,30-17,81} = \frac{25,5}{24,49} = 1,041$$

3. Siklus 2

Formula I					
F1	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,90	43,39	44,33	25 ml	1.038
Formula II					
F2	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,93	43,40	44,41	25 mL	1.041
Formula III					
F3	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,95	43,31	44,50	25 ml	1.044

$$FI : \frac{44,33 - 18,90}{43,39 - 18,90} = \frac{25,43}{24,49} = 1,038$$

$$FII : \frac{44,41 - 18,93}{43,30 - 18,93} = \frac{25,48}{24,47} = 1,041$$

$$FIII : \frac{44,50 - 18,95}{43,31 - 18,95} = \frac{25,45}{24,36} = 1,044$$

4. Siklus 3

Formula I					
F1	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,95	43,74	44,64	25 ml	1.036
Formula II					
F2	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,97	43,75	44,80	25 mL	1.042
Formula III					
F3	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,93	43,76	44,80	25 ml	1.042

$$FI : \frac{44,64 - 18,95}{43,74 - 18,95} = \frac{25,69}{24,79} = 1,036$$

$$FII : \frac{44,80 - 18,97}{43,75 - 18,97} = \frac{25,83}{24,78} = 1,042$$

$$FIII : \frac{44,80 - 18,93}{43,75 - 18,93} = \frac{25,87}{24,82} = 1,042$$

5. Siklus 4

Formula I					
F1	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,70	43,20	44,13	25 ml	1.037
Formula II					
F2	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,73	43,23	44,21	25 mL	1.040
Formula III					
F3	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,71	43,27	44,31	25 ml	1.042

$$FI : \frac{44,13-18,70}{43,20-18,70} = \frac{25,43}{24,5} = 1,037$$

$$FII : \frac{44,21-18,73}{43,23-18,73} = \frac{25,48}{24,5} = 1,040$$

$$FIII : \frac{44,31-18,71}{43,27-18,71} = \frac{25,6}{24,56} = 1,042$$

6. Siklus 5

Formula I					
F1	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,74	43,24	44,17	25 ml	1.037
Formula II					
F2	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,74	43,21	44.18	25 mL	1.039
Formula III					
F3	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	18,71	43,27	44,31	25 ml	1.042

$$F1 : \frac{44,17-18,74}{43,24-18,74} = \frac{25,43}{24,5} = 1,037$$

$$FII : \frac{44,18-18,74}{43,21-18,74} = \frac{25,44}{24,47} = 1,039$$

$$FIII : \frac{44,31-18,71}{43,27-18,71} = \frac{25,6}{24,56} = 1,042$$

7. Siklus 6

Formula I					
F1	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	17,79	42,15	43.54	25 ml	1.057
Formula II					
F2	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	19,39	44.35	45.04	25 mL	1.027
Formula III					
F3	Pikno kosong (W_0) gram	Pikno + air (W_1) gram	Pikno + sample (W_2) gram	VoL Piknometer	ρ_{sabun} (g/ml)
	19,41	44.39	45.67	25 ml	1.051

$$FI : \frac{44,54-17,79}{43,54-17,79} = \frac{25,75}{24,36} = 1,057$$

$$FII : \frac{45,04-19,39}{44,35-19,39} = \frac{25,65}{24,96} = 1,027$$

$$FIII : \frac{45,67-19,41}{44,39-19,41} = \frac{26,26}{24,98} = 1,051$$

Lampiran 7. Perhitungan Tinggi Busa

1. Siklus 0

Formula	Tinggi awal	Tinggi Akhir	Hasil (%)
FI	17	12	70
FII	20	13	65
FIII	20	12	60

F1

$$1. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{12}{17} \times 100\% = 70\%$$

FII

$$2. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{13}{20} \times 100\% = 65\%$$

FIII

$$3. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{12}{20} \times 100\% = 60\%$$

2. Siklus 1

Formulasi	Tinggi awal	Tinggi akhir	Hasil (%)
FI	17	12	70
FII	20	14	70
FIII	18	12	66

F1

$$1. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{12}{17} \times 100\% = 70\%$$

F2

$$2. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{14}{20} \times 100\% = 70\%$$

F3

$$3. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{12}{18} \times 100\% = 66\%$$

3. Siklus 2

Formula	Tinggi awal	Tinggi akhir	Hasil (%)
FI	22	16	70
FII	23	16	69
FIII	20	13	65

F1

$$1. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{16}{22} \times 100\% = 72\%$$

F2

$$2. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{16}{23} \times 100\% = 69\%$$

F3

$$3. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{11}{18} \times 100\% = 70\%$$

4. Siklus 3

Formula	Tinggi awal	Tinggi Akhir	Hasil (%)
FI	20	14	70
FII	22	15	68
FIII	18	11	61

F1

$$1. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{14}{20} \times 100\% = 70\%$$

F2

$$2. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{15}{22} \times 100\% = 68\%$$

F3

$$3. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{11}{18} \times 100\% = 61\%$$

5. Siklus 4

Formula	Tinggi awal	Tinggi akhir	Hasil (%)
FI	19	13	68
FII	18	16	66
FIII	20	12	60

F1

$$1. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{13}{19} \times 100\% = 68\%$$

F2

$$2. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{16}{18} \times 100\% = 66\%$$

F3

$$3. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{12}{20} \times 100\% = 60\%$$

6. Siklus 5

Formula	Tinggi awal	Tinggi akhir	Hasil (%)
FI	21	14	66
FII	19	12	63
FIII	17	10	58

F1

$$1. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{14}{21} \times 100\% = 66\%$$

F2

$$2. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{12}{19} \times 100\% = 63\%$$

F3

$$3. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{10}{17} \times 100\% = 58\%$$

7. Siklus 6

Formula	Tinggi awal	Tinggi akhir	Hasil (%)
FI	17	11	64
FII	20	12	60
FIII	19	11	57

F1

$$1. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{11}{17} \times 100\% = 64\%$$

F2

$$2. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$


$$\text{Uji busa} = \frac{12}{20} \times 100\% = 60\%$$


F3

$$3. \text{ Uji busa} = \frac{\text{Tinggi busa akhir}}{\text{Tinggi busa awal}} \times 100\%$$

$$\text{Uji busa} = \frac{11}{19} \times 100\% = 57\%$$

Lampiran 8. Certificate of Analysis





Certificate of Analysis
cdh@esachemical.com




ACETIC ACID GLACIAL (ALDEHYDE FREE) AR
(SPECIALLY SUITABLE FOR USE IN DETERMINATION OF CHOLESTEROL IN BLOOD PLASMA AND FOR WIJ'S SOLUTION)

PRODUCT CODE	40239	Batch No.	113222
SYNONYMS	N/A	Mfg.	1 Dec. 2021
C.I. NO.	N/A	Retest	1 Nov. 2026
CASR NO.	64-19-7		
ATOMIC OR MOLECULAR FORMULA	CH ₃ COOH		
ATOMIC OR MOLECULAR WEIGHT	60.05		
PROPERTIES	Combustible		
PARAMETER	LIMIT	OBSERVED	
Description	A clear colourless liquid with a characteristic odour.	Complies	
Solubility	Miscible with water.	Complies	
Minimum assay (Acidimetric)	99.8%	99.8%	
Wt per ml at 20°C	1.048 - 1.050 g	1.048 g	
Freezing point	Min. 16.2°C	15.2°C	
MAXIMUM LIMIT OF IMPURITIES			
Water insoluble matter	Passes test	Passes test	
Non volatile matter	0.001%	0.000%	
Chloride (Cl)	0.0001%	Less than 0.0001%	
Formate	0.01%	Less than 0.01%	
Sulphate (SO ₄)	0.0001%	Less than 0.0001%	
Arsenic (As)	0.00005%	Less than 0.00005%	
Iron (Fe)	0.00005%	Less than 0.00005%	
Lead (Pb)	0.00005%	Less than 0.00005%	
Substance reducing dichromate (S)	0.003%	Less than 0.003%	
Formaldehyde (CH ₂ O)	Nil	Nil	
Water	0.2%	0.15%	

Remarks: Sample complies as per above specification.

ANALYST

MANAGER (Q.C.)

In compliance with standard specifications of CDH
This CoA has been generated electronically and is valid without signature.

Corp. Office: 1118, Wawasan Muncur, Garut Reg., West Java 43100 (INDONESIA)
 1st Floor: P.O. Box 02-12195, Jalan 8, Industrial Estate, Duta, Malacca 75130 (Malaysia)
 E-mail: sales@cdhchemical.com Phone: +61 8 49464663 (100 Lines)

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PLANT SITE :
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 FAX : +62(21) 5943295, 5943464
 www.arbecel.com

PT. ARBE CHEMINDO

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.

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.

The above particulars do not release the customer from the obligation to carry out an inspection of good received.

PT. ARBE CHEMINDO
 Von Narijus -
 QC. Head Of Dept.

Form No. : 199-710-0011



SERTIFIKAT ANALISA

Nama bahan : Kalii Hydroxyd/ KOH
 No. Batch : C1804A007
 Ex : Korea
 Batch Original: 17.12.28 A.167

Pemeriksaan	Syarat Farmakope (FI IV)	Hasil pemeriksaan
Pemerian	Massa berbentuk batang, keping, pelet atau bongkahan, putih mudah meleleh basah meleleh, sangat alkalis dan korosif.	sesuai
Kelarutan	Larut dalam 1 bagian air, dalam 3 etanol 95%.	sesuai
Identifikasi	Larutan bereaksi alkalis kuat,	sesuai
Kadar	90,0% min	91,0%

Bandung, 5 April 2018
 Apoteker

PT. BRATACO

Sugiman Agustian, S.Si., Apt

HEAD OFFICE : Jl. Cideng Barat No. 78 Jakarta Pusat 10150, Telp. (021) 3522733 (hunting) Fax : (021) 3522734 - E-mail : bsoak@brataco.com
BRANCH OFFICE :
 * **JAKARTA** : Jl. Muih No. 22 Jakarta Pusat 10150, Telp. (021) 3802043, 3802048 Fax (021) 3845043
 Jl. Mangga Besar 7 No. 5 Jakarta 11180 Telp. (021) 6285113 (hunting 3 lines) Fax (021) 6285430
 Jl. Boulevard Raya Blok TB2 No.5, Jakarta 14240 Telp. (021) 45846602 Fax. (021) 4532815
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 Jl. Terusan Jakarta No. 770, Bandung Telp. (022) 7101577, 7210308-309 Fax. (022) 7210310
 * **SEMARANG** : Jl. Brigjen Kalanono No. 19 Telp. (024) 8415272, 8415989 Fax. (024) 8414880
 * **YOGYA** : Jl. Bhayangkara No. 45 Yogyakarta Telp. (0274) 545346, 515389 Fax. (0274) 545348
 * **SURABAYA** : Jl. Tidar No. 89, Surabaya Telp. (031) 5322887, 5325057 Fax. (031) 5310468
 * **MEDAN** : Jl. Ganteng Subotio No. 319 / 2308, Medan Telp. (061) 4148272, 4521519 Fax. (061) 4520996
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 The Nationwide Chemicals and Ingredients Distributor



HASIL PEMERIKSAAN

Nama Bahan : Acid Stearic Lokal
 Batch : JT 0024/18 (B 180104-22 W)
 Ex : Wilfarin (PT. Wilmar Nabati Indonesia)
 ED : 04-2025
 Grade : Teknis

Jenis pemeriksaan	Persyaratan usp nf 19	Hasil
Pemerian	Zat padat mengkilat menunjukkan susunan hablur, putih atau kuning pucat, mirip lemak lilin	granul bulat, putih mengkilap
Kelarutan	Praktis tidak larut dalam air, larut dalam kloroform, larut dalam ethanol 95% dan dalam eter	sesuai
Bilangan asam	194-212 ml KOH/gr	204.22 mg KOH/gr
Bilangan sabun	200-220 ml KOH/gr	207.96 mg KOH/gr

Kesimpulan : Memenuhi syarat

Cikarang, 10 – 02 – 2018

Pemeriksa

Aptria Warski
Staff QC

Penanggung Jawab

Dra. Tri Hartati
Apoteker
SIK.3836/B

HEAD OFFICE : J. Cikarang Pusat No. 78, Jakarta Pusat 10150, Telp. (021) 3522738 (Pusat) Faks. (021) 3522734, E-mail: hr@brataco.com
 BRANCH OFFICE :
 • JAKARTA : J. Mangga Besar V No. 5, Jakarta 11180 Telp. (021) 5290113 (Pusat) Faks. (021) 6292430
 • BANGUNG : J. Boulevard Raya Blok 701 No. 8, Jakarta 10140 Telp. (021) 4084602-64 Faks. (021) 4032919
 • BANDUNG : J. Kelenang No. 8, Bandung Telp. (022) 8277128, 8038008 Faks. (022) 8319191
 • SEMARANG : J. Terusan Jakarta No. 710, Semarang Telp. (022) 7191277, 7210208-309 Faks. (022) 7210210
 • YOGYA : J. Prigen - Sidamanoh No. 79, Yogyakarta Telp. (0274) 8453272, 8418888 Faks. (0274) 8414888
 • SURABAYA : J. Blywargata No. 45, Yogyakarta Telp. (0274) 843348, 8103386 Faks. (0274) 8433489
 • MEDAN : J. Tidar No. 89, Surabaya Telp. (031) 5322887, 5322957 Faks. (031) 5319485
 • TANGERANG : J. Jenderal Sudirman 401 B, Medan Telp. (011) 4148272, 4521188 Faks. (011) 4235968
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PRODUCT SPECIFICATIONS

Product Name: Butylated hydroxytoluene (BHT)
(90352)

Product Code: 90352

Molecular Formula : $C_{15}H_{24}O$

CAS No.:128-37-0

Test	Specification
TEST	LABEL CLAIM SPECIFICATION
DESCRIPTION	Colourless crystals or white crystalline powder.
GUARANTEE ANALYSIS	
ASSAY (GC)	NLT 99.0%
MELTING RANGE	68 - 71°C
MAXIMUM LIMITS OF IMPURITIES	
SULPHATED ASH	0.1%

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New format Issue Date : 01.01.2020

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Esa Unggul

GINOPOL - 24 P

Sodium Lauryl Sulphate (SLS) Powder -
Natural Based

Specifications :Appearance	: White Powder
Active Matter %	: 95 Min
pH (1% Aqueous Solution)	: 8.5 - 10.5
Sodium Sulphate %	: 4.0 Max
Sodium Chloride %	: 0 .5 Max
Un-Sulfated Matter %	: 2.0 Max
Moisture %	: 2.0 Max
Packing	: 20 Kg Nett HDP / E / PP Bags

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Lampiran 9. Dokumentasi Lainnya

