

LAMPIRAN

Lampiran 1 Certificate OF Analysis Ekstrak Katuk

CPOTB/GMP Certified
Good Manufacturing Practices
ISO 9001:2015

YKAN
SAP
Integrated System

BOROBUDUR
NATURAL HERBAL INDUSTRY

BOROBUDUR INDUSTRI JAMU, PT.
Head Office :
Jl. Madukoro Blok A/26 Semarang 50141
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E-mail : office@borobudurherbal.com

www.borobudurherbal.com

CERTIFICATE OF ANALYSIS

DRY EXTRACT

MANUFACTURING DATA		GENERAL DATA	
Product Name	Sweet Leaf Bush P.E	Plant Species	<i>Sauropus androgynus</i>
Local Name	Katu	Botanical part used	Leaves
Batch Number	011PT01.5	Ratio Botanical Extract	10 : 1
Manufacture Date	April 28, 2020	Excipients	-
Testing Date	May 27, 2021	Preservatives	N/A
Expire Date	April 27, 2024	Extraction Solvent	Ethanol 70%
Shelf Life	4 years	Storage	store in cool and dry place, keep away from strong light and heat

ITEM	SPECIFICATION	TEST RESULT	TEST METHOD
IDENTIFICATION TEST			
Appearance	Granule	Complies	Visual
Color	Dark Brown	Complies	Visual
Odor	Aromatic	Complies	Organoleptic
Taste	Bitter	Complies	Organoleptic
Mesh Size	70 % pass mesh 12	Complies	12 mesh screen
Loss On Drying	5.0 % max	2.99 %	2g/105°C/15 minutes
HEAVY METALS			
Arsenic (As)	5 ppm max	Complies	AAS
Lead (Pb)	10 ppm max	Complies	AAS
MICROBIOLOGICAL TEST			
Total Plate Count	Not more than 1000 cfu/gram	< 100 cfu/gram	Dilution Plating
Fungi/Yeast and molds	Not more than 100 cfu/gram	< 100 cfu/gram	Dilution Plating
E. coli	Should be absent	Complies	MPN Method
Salmonella	Should be absent	Complies	Dilution Plating
S. aureus	Should be absent	Complies	Dilution Plating
P. aeruginosa	Should be absent	Complies	Dilution Plating

REMARKS : COMPLIES WITH THE SPECIFICATION

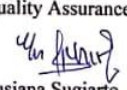
Semarang, March 15, 2022

Operational Manager



Joko Kawiyo, MM, Apt

Quality Assurance



Lusiana Sugiarto, Apt

FACTORY : Jl. Hasanudin No.1 Semarang 50176 - Indonesia. Tel +62-24-3510785, Fax +62-24-3541332, E-mail : factory@borobudurherbal.com
BOROBUDUR EXTRACTION CENTER (BEC) : Jl. Walisongo KM.10 Semarang - Indonesia. Tel +62-24-8664261, Fax +62-24-8664303, E-mail : extraction.bec@gmail.com

Branch Offices :

JAKARTA : Jl. Tondang Tinggi Raya 11, Jakarta Barat 11440 T. +62-21-56968655 (Hunting); F. +62-21-5671767
TANGERANG : Jl. KH Hasyim Asyari Ruko Cipondoh No.230/Cipondoh, Tangerang Kota T.(WA)+62-881-8071-736
BEKASI : Ruko Kalimalang Square Unit U, Jl. KH Husein Ali Bekasi, Bekasi Selatan T./F. +62-21-89961634
BOGOR : Jl. Paledang No. 47, Bogor 16122 T. +62-251-8333707 F. +62-251-8339658
BANDUNG : Jl. Cikukang Holis Komp. Prapianca Kav. G-14, Bandung 40214 T. +62-22-6041413 F. +62-22-6094601

MEDAN : Jl. Binjai KM 8.5 Pasar 5 KBH (Jl. Mawar No 19) Kel. Lalang Kec. Medan Sunggal Medan T./F. +62-61-8473456
SURABAYA : Jl. Kallanak Barat 49 Kav 25, Surabaya 60193 T. +62-31-7490909 (Hunting) 7491374-75 F. +62-31-7490562
MALANG : Jl. Tenaga Baru II No 2 Kec. Blimbing - Malang T./F. +62-341-2990277
DENPASAR : Jl. Nangka Utara No. 293, Denpasar 80239 - Bali T./F. +62-361-422252

Lampiran 2 Lampiran 1 Certificate OF Analysis Ekstrak Kunyit



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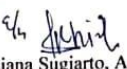
CERTIFICATE OF ANALYSIS
DRY EXTRACT

MANUFACTURING DATA		GENERAL DATA	
Product Name	Turmeric P.E	Plant Species	<i>Curcuma domestica</i>
Local Name	Kunyit	Botanical part used	Rhizome
Batch Number	044PU02.3	Ratio Botanical Extract	10 : 1
Manufacture Date	April 4, 2021	Excipients	Maltodextrin
Testing Date	April 5, 2021	Preservatives	N/A
Expire Date	April 3, 2025	Extraction Solvent	Ethanol 50%
Shelf Life	4 years	Storage	store in cool and dry place, keep away from strong light and heat

ITEM	SPECIFICATION	TEST RESULT	TEST METHOD
IDENTIFICATION TEST			
Appearance	Granule	Complies	Visual
Color	Reddish Brown	Complies	Visual
Odor	Aromatic	Complies	Organoleptic
Taste	Bitter	Complies	Organoleptic
Mesh Size	70 % pass mesh 12	Complies	12 mesh screen
Loss On Drying	5.0 % max	1.58 %	2g/105°C/15 minutes
HEAVY METALS			
Arsenic (As)	5 ppm max	Complies	AAS
Lead (Pb)	10 ppm max	Complies	AAS
MICROBIOLOGICAL TEST			
Total Plate Count	Not more than 1000 cfu/gram	< 100 cfu/gram	Dilution Plating
Fungi/Yeast and molds	Not more than 100 cfu/gram	< 100 cfu/gram	Dilution Plating
E. coli	Should be absent	Complies	MPN Method
Salmonella	Should be absent	Complies	Dilution Plating
S. aureus	Should be absent	Complies	Dilution Plating
P. aeruginosa	Should be absent	Complies	Dilution Plating

REMARKS : COMPLIES WITH THE SPECIFICATION


Operational Manager
Joko Kawiyo, MM, Apt

Quality Assurance

Lusiana Sugiarto, Apt

Semarang, March 10, 2022

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TANGERANG : Jl. R94 Hasyim Ashari Bulak Cipondoh No.230Dgn Dima Cipondoh, Tangerang Kota T. (HVA)-62-881-8071-736
BEKASI : Bulak Kertama Square Unit U, Jl. R11 Hoer Ali Bekasi, Bekasi Selatan T. / F. +62-21-89161534
BOGOR : Jl. Poltekling No. 47, Bogor 16122 T. +62-251-8333707 F. - +62-251-8339658
BANDUNG : Jl. Cikukang Holo Korp. Preparaia Kav. G-14, Bandung 40214 T. +62-22-6041411 F. +62-22-6006601
MEDAN : Jl. Binjan KM 6.5 Pasar 5 KDN I, Jl. Manar No 19 I, Kert. Lalang kec. Medan Sunggal, Medan T. / F. +62-61-8473454
SURABAYA : Jl. Kalimas Barat 49 Kav 25, Surabaya 60193 T. +62-31-7490909 (Hutemung) 7491374 75 F. +62-31-7490542
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DENPASAR : Jl. Hanjika Utara No. 293, Denpasar 80239 T. / F. +62-361-422252

Lampiran 3 Certificate OF Analysis Avicel pH 102



安徽山河药用辅料股份有限公司检验报告单

ANHUI SUNHERE PHARMACEUTICAL EXCIPIENTS CO., LTD.

ADD:Economic and Technological Developing Zone,Huainan,Anhui,China

CERTIFICATE OF ANALYSIS

Product: Povidone K30

Batch No.	211203	REP DATE	DEC.09,2021
Specifications	25kg/drum	MFG DATE	DEC.03,2021
Quantity	3000kg	EXP DATE	DEC.02,2023
Tests		Standard USP43	Examinations
Identification A-E		Positive	Complies
Appearance		White or yellowish-white powder	White powder
Solubility		Freely soluble in water,ethanol 96%.methanol,very slightly soluble in acetone.	Complies
Appearance of solution		Clear and NMT B ₆ ,BY ₆ or R ₆	Complies
pH (5% in water)		3.0~5.0	3.8
K-value		27-32	28.3
Aldehydes		≤500ppm	<500ppm
Peroxides(H ₂ O ₂)		≤400ppm	<400ppm
Formic acid		≤0.5%	0.35%
Hydrazine		≤1ppm	<1ppm
Vinylpynrrolidinone		≤0.001%	<10ppm
2-Pyrrolidone		≤3.0%	1.80%
Heavy metals (CP2010)		≤10ppm	<10ppm
Lead		≤10ppm	<10ppm
Water		≤5.0%	3.0%
Residue on Ignition		≤0.1%	0.08%
Nitrogen content		11.5~12.8%	12.1%
Total Aerobic Plate Count		≤100cfu/g	10cfu/g
Mold and Yeast Count		≤100cfu/g	10cfu/g
E.coli		Not detected	Complies
Staphylococcus Aureus		Not detected	Complies
Pseudomonas aeruginosa		Not detected	Complies
Salmonella Spp		Not detected	Complies

Lampiran 4 Certificate OF Analysis Sukralosa



Shandong Kanbo Biochemical Technology Co., Ltd

Add: No.1016.Liba Road, Lijin County, Dongying City, Shandong Province,257400,P.R.China

CERTIFICATE OF ANALYSIS

Product Name: Sucralose [56038-13-2] Test Date: October 7, 2021
 Batch NO.: 202109066 Manu.Date: October 1, 2021
 Quantity: 2000 kg Expiry Date: September 30, 2023

Item	FCC12, EP10, USP43, E955,GB25531andGB4789	Result
Appearance	White or almost white powder	Complies
Ident IR	The IR absorption spectrum conform the reference spectrum	Pass
Ident HPLC	The retention time of the principal peak in the chromatogram of the Assay preparation corresponds to that in the chromatogram of the Standard preparation	Pass
Ident TLC	The Rf value of the major spot in the thin-layer chromatogram of the Sample solution is the same as that of the Standard solution obtained in the test for Related Substances.	Pass
Assay	98.0~102.0%	99.30%
Specific Rotation	+84.0~+87.5°	+85.83°
Clarity of solution	---	Clear
PH (10% aqueous solution)	5.0~7.0	6.72
Moisture	≤2.0%	0.14%
Methanol	≤0.1%	Not detected
Ignited Residue	≤0.7%	0.02%
Arsenic(As)	≤3ppm	<3ppm
Heavy metals	≤10ppm	<10ppm
Lead	≤1ppm	Not detected
Related substances (Other chlorinated)	≤0.5%	<0.5%
Hydrolysis products (Chlorinated monosaccharides)	≤0.1%	Complies
Triphenylphosphine oxide	≤150ppm	<150ppm
Total aerobic count	≤250CFU/g	<20CFU/g
Yeast & Moulds	≤50CFU/g	<10CFU/g
Coliforms	Negative	Nf
E.coli	Negative	Nf
S.aureus	Negative	Nf
Salmonella	Negative	Nf

Particle size 95% pass through 100 mesh

Storage condition: Store in well closed container, dry and cool place

Shelf Life: 2 years while stored in original packing under above stated condition.

Conclusion: The product complies with FCC12, EP10, USP43, E955,GB25531 and GB4789 standards.

Approved: Xu Songbo

Inspector: Liu Shilong

Lampiran 5 Certificate OF Analysis PVP



安徽山河药用辅料股份有限公司检验报告单

ANHUI SUNHERE PHARMACEUTICAL EXCIPIENTS CO., LTD.

ADD:Economic and Technological Developing Zone,Huainan,Anhui,China

CERTIFICATE OF ANALYSIS

Product: Povidone K30

Batch No.	211203	REP DATE	DEC.09,2021
Specifications	25kg/drum	MFG DATE	DEC.03,2021
Quantity	3000kg	EXP DATE	DEC.02,2023
Tests		Standard USP43	Examinations
Identification A-E		Positive	Complies
Appearance		White or yellowish-white powder	White powder
Solubility		Freely soluble in water, ethanol 96% methanol, very slightly soluble in acetone.	Complies
Appearance of solution		Clear and NMT B ₆ , BY ₆ or R ₆	Complies
pH (5% in water)		3.0~5.0	3.8
K-value		27-32	28.3
Aldehydes		≤500ppm	<500ppm
Peroxides(H ₂ O ₂)		≤400ppm	<400ppm
Formic acid		≤0.5%	0.35%
Hydrazine		≤1ppm	<1ppm
Vinylpyrrolidinone		≤0.001%	<10ppm
2-Pyrrolidone		≤3.0%	1.80%
Heavy metals (CP2010)		≤10ppm	<10ppm
Lead		≤10ppm	<10ppm
Water		≤5.0%	3.0%
Residue on Ignition		≤0.1%	0.08%
Nitrogen content		11.5~12.8%	12.1%
Total Aerobic Plate Count		≤100cfu/g	10cfu/g
Mold and Yeast Count		≤100cfu/g	10cfu/g
E.coli		Not detected	Complies
Staphylococcus Aureus		Not detected	Complies
Pseudomonas aeruginosa		Not detected	Complies
Salmonella Spp		Not detected	Complies

Lampiran 6 Persetujuan Etik



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET DAN TEKNOLOGI
UNIVERSITAS PADJADJARAN
KOMISI ETIK PENELITIAN
RESEARCH ETHICS COMMITTEE

Jl. Prof. Eyckman No. 38 Bandung 40161
Telp. & Fax. 022-2038697 email: kep@unpad.ac.id, website: kep.unpad.ac.id

No. Reg.: 2202020223

PERSETUJUAN ETIK
ETHICAL APPROVAL

Nomor: 403/UN6.KEP/EC/2022

Komisi Etik Penelitian Universitas Padjadjaran Bandung, dalam upaya melindungi hak asasi dan kesejahteraan subjek penelitian serta menjamin bahwa penelitian yang menggunakan formulir survei/registrasi/surveilance/epidemiologi/humaniora/sosial Budaya/Bahan Biologi Tersimpan/Sel Punca dan non klinis lainnya berjalan dengan memperhatikan implikasi etik, hukum, sosial dan non klinis lainnya yang berlaku, telah mengkaji dengan teliti proposal penelitian berjudul:

The Research Ethics Committee Universitas Padjadjaran Bandung, in order to protect the rights and welfare of the research subject, and to guaranty that the research using survey questionnaire/registry/surveillance/epidemiology/humaniora/social-cultural/archived biological materials/stem cell/other non clinical materials, will carried out according to ethical, legal, social implications and other applicable regulations, has been throughly reviewed the proposal entitled:

"FORMULASI MINUMAN PELET INSTAN EKSTRAK KUNYIT (*CURCUMA LONGA L.*) DENGAN METODE EKSTRAKSI SFERONISASI"

Nama Peneliti Utama : Lina Maryana
Principal Researcher

Pembimbing/Peneliti Lain : apt. Drs. Rahmat Santoso, M.Si., MH.Kes
Supervisor/Other Researcher apt. Dadih Supriadi, M.Si

Nama Institusi : Program Sarjana
Institution Program Studi Farmasi
Fakultas Farmasi Universitas Bhakti Kencana Bandung

proposal tersebut dapat disetujui pelaksanaannya.
hereby declare that the proposal is approved.



Ditetapkan di : Bandung
Issued in
Tanggal : 25-04-2022
Date

Ketua,
Chairman,



Nur Atik, dr, M.Kes., PhD
NIP. 19811010 200801 1 019

Keterangan/notes:

Persetujuan etik ini berlaku selama satu tahun sejak tanggal ditetapkan.

This ethical clearance is effective for one year from the due date.

Pada akhir penelitian, laporan pelaksanaan penelitian harus diserahkan ke Komisi Etik Penelitian.

In the end of the research, progress and final summary report should be submitted to the Research Ethics Committee.

Jika ada perubahan atau penyimpangan protokol dan/atau perpanjangan penelitian, harus mengajukan kembali permohonan kajian etik penelitian.

If there be any protocol modification or deviation and/or extension of the study, the Principal Investigator is required to resubmit the protocol for approval.

Jika ada kejadian serius yang tidak diinginkan (KTD) harus segera dilaporkan ke Komisi Etik Penelitian.

If there are Serious Adverse Events (SAE) should be immediately reported to the Research Ethics Committee

Lampiran 7 Alat dan Bahan

Mesh 16



Overhead stirrer
dengan alat
sferonisasi



Tabung
Sferonisasi



Oven



Moisture balace



Flowability tester



Alat Sudut
Istirahat



Sieve Shaker



Pan Coater dan Mixer



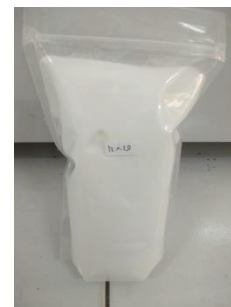
Ekstrak Katuk



Ekstrak Kunyit



PVP



Avicel pH 102



Sukralosa



Opadry



Akuades



Lampiran 8 Pembuatan Pelet

Masa Kepal
Optimasi PVP



Masa Kepal
ekstrak katuk dan
kunyit



Penyalutan



Silinder F1



Sferis F1



Silinder F2



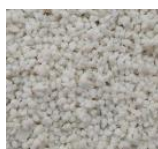
Sferis F2



Silinder F3



Sferis F3



Silinder F4



Sferis F4



Silinder F5



Sferis F5



Silinder F6



Sferis F6



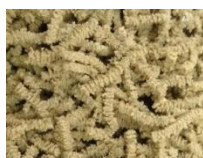
Silinder F7



Sferis F7



Silinder F8



Sferis F8



Silinder F9



Sferis F9



Silinder F1



Sferis F10



Setelah disalut

Sferis F6



Sferis F7



Sferis F8



Sferis F9



Sferis F10



Lampiran 9 Proses Penyalutan Sferoid

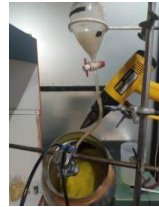
Penimbangan
Opadry



Pelarutan Opadry
dengan Akuades



Penyalutan sferoid
dengan opadry



Sferoid setelah
disalut



Lampiran 10 Uji Evaluasi

Kadar Air



Laju Alir



Sudut Istirahat



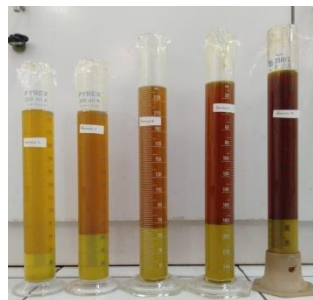
Distribusi Ukuran
Partikel



Waktu melarut



Volume Sedimentasi



Hedonik



Lampiran 11 Penapisan fitokimia

1. Penapisan Fitokimia Ekstrak Katuk

Identifikasi	Peraksi	Hasil	Gambar
Alkaloid	Dragendorf	(+)Terjadi pengendapan	
	Mayer		
Flavonoid	Mg+HCl+Amil alkohol	(+) terbentuk warna pada lapisan amil alkohol	
Tanin	Gelatin 1%	(-) Tidak terjadi pengendapan	
	FeCl ₃ 1%	(+)Terjadi perubahan warna	
Saponin	HCL 2 N	(+) Terbentuk busa	
Kuinon	NaOH	(-)Tidak terjadi pengendapan	
Steroid/triterpenoid	LB	(+)Steriod, terjadi perubahan warna hijau	

2. Penapisan Fitokimia Ekstrak Kunyit

Identifikasi	Peraksi	Hasil	Gambar
Alkaloid	Dragendorf	(+)Terjadi pengendapan merah	
	Mayer		
Flavonoid	Mg+HCl+Amil alkohol	(+) terbentuk warna pada lapisan amil alcohol	
Tanin	Gelatin 1%	(+)Terbentuk endapan putih	
	FeCl ₃ 1%	(+)Terbentuk perubshsn warna merah	
Saponin	HCl 2 N	(-) Tidak terbentuk busa	
Kuinon	NaOH 1 N	(+)terbentuk perubahan warna merah jingga	
Steroid/triterpenoid	LB	(+)triterpenoid terbentuk perubahan warna merah	

Lampiran 12 Data Uji Evaluasi

Susut Pengerinan Optimasi PVP

1. Normalitas

Tests of Normality							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Susut_pengerinan	Formula_1	,375	3	.	,774	3	,053
	Formula_2	,301	3	.	,911	3	,422
	Formula_3	,196	3	.	,996	3	,878
	Formula_4	,375	3	.	,775	3	,056
	Formula_5	,315	3	.	,891	3	,358

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

Susut_pengerinan

Levene Statistic	df1	df2	Sig.
3,230	4	10	,060

3. Anova

ANOVA

Susut_pengerinan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2,499	4	,625	3,192	,062
Within Groups	1,957	10	,196		
Total	4,456	14			

Susut Pengerinan Pelet

1. Normalitas

Tests of Normality							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
SusutPengerinan	Formula6	,364	3	.	,801	3	,116
	Formula7	,309	3	.	,900	3	,385
	Formula8	,341	3	.	,847	3	,233
	Formula9	,239	3	.	,975	3	,697
	Formula10	,279	3	.	,939	3	,523

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

SusutPengerangan

Levene Statistic	df1	df2	Sig.
4,256	4	10	,029

3. Anova

ANOVA

SusutPengerangan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,549	4	,137	2,048	,163
Within Groups	,670	10	,067		
Total	1,218	14			

4. Kruskal-Wallis Test

Test Statistics^{a,b}

	SusutPengerangan
Chi-Square	6,167
df	4
Asymp. Sig.	,187

a. Kruskal Wallis Test

b. Grouping Variable: Formula

Susut Pengerangan Pelet setelah Penyalutan

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
SusutPengerangan	Formula6	,340	3	.	,849	3	,238
	Formula7	,330	3	.	,866	3	,284
	Formula8	,194	3	.	,997	3	,888
	Formula9	,243	3	.	,972	3	,681
	Formula10	,252	3	.	,965	3	,640

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

SusutPengerangan

Levene Statistic	df1	df2	Sig.
1,038	4	10	,435

3. Anova

ANOVA

SusutPengerangan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,199	4	,050	,186	,941
Within Groups	2,680	10	,268		
Total	2,879	14			

Laju Alir Optimasi PVP

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
LajuAlir	Formula_1	,346	3	.	,837	3	,206
	Formula_2	,241	3	.	,974	3	,688
	Formula_3	,246	3	.	,970	3	,668
	Formula_4	,241	3	.	,974	3	,688
	Formula_5	,196	3	.	,996	3	,878

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

LajuAlir

Levene Statistic	df1	df2	Sig.
,407	4	10	,800

3. Anova

ANOVA

LajuAlir

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9,648	4	2,412	183,459	,000
Within Groups	,131	10	,013		
Total	9,779	14			

4. Post Hoc

Multiple Comparisons

Dependent Variable: LajuAlir

LSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula_1	Formula_2	,57000*	,09362	,000	,3614	,7786

Formula_2	Formula_3	-,37000*	,09362	,003	-,5786	-,1614
	Formula_4	1,98667*	,09362	,000	1,7781	2,1953
	Formula_5	,60333*	,09362	,000	,3947	,8119
	Formula_1	-,57000*	,09362	,000	-,7786	-,3614
	Formula_3	-,94000*	,09362	,000	-1,1486	-,7314
Formula_3	Formula_4	1,41667*	,09362	,000	1,2081	1,6253
	Formula_5	,03333	,09362	,729	-,1753	,2419
	Formula_1	,37000*	,09362	,003	,1614	,5786
	Formula_2	,94000*	,09362	,000	,7314	1,1486
	Formula_4	2,35667*	,09362	,000	2,1481	2,5653
Formula_4	Formula_5	,97333*	,09362	,000	,7647	1,1819
	Formula_1	-1,98667*	,09362	,000	-2,1953	-1,7781
	Formula_2	-1,41667*	,09362	,000	-1,6253	-1,2081
	Formula_3	-2,35667*	,09362	,000	-2,5653	-2,1481
	Formula_5	-1,38333*	,09362	,000	-1,5919	-1,1747
Formula_5	Formula_1	-,60333*	,09362	,000	-,8119	-,3947
	Formula_2	-,03333	,09362	,729	-,2419	,1753
	Formula_3	-,97333*	,09362	,000	-1,1819	-,7647
	Formula_4	1,38333*	,09362	,000	1,1747	1,5919

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

Laju Alir Pelet

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
LajuAlir	Formula6	,232	3	.	,980	3	,726
	Formula7	,337	3	.	,855	3	,253
	Formula8	,224	3	.	,984	3	,759
	Formula9	,179	3	.	,999	3	,948
	Formula10	,276	3	.	,942	3	,537

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

LajuAlir

Levene Statistic	df1	df2	Sig.
1,068	4	10	,422

3. Anova

ANOVA

LajuAlir

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	15,029	4	3,757	168,531	,000
Within Groups	,223	10	,022		
Total	15,251	14			

4. Post Hoc

Multiple Comparisons

Dependent Variable: LajuAlir

LSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula6	Formula7	,00333	,12191	,979	-,2683	,2750
	Formula8	1,12333*	,12191	,000	,8517	1,3950
	Formula9	-,80333*	,12191	,000	-1,0750	-,5317
	Formula10	-1,89667*	,12191	,000	-2,1683	-1,6250
Formula7	Formula6	-,00333	,12191	,979	-,2750	,2683
	Formula8	1,12000*	,12191	,000	,8484	1,3916
	Formula9	-,80667*	,12191	,000	-1,0783	-,5350
	Formula10	-1,90000*	,12191	,000	-2,1716	-1,6284
Formula8	Formula6	-1,12333*	,12191	,000	-1,3950	-,8517
	Formula7	-1,12000*	,12191	,000	-1,3916	-,8484
	Formula9	-1,92667*	,12191	,000	-2,1983	-1,6550
	Formula10	-3,02000*	,12191	,000	-3,2916	-2,7484
Formula9	Formula6	,80333*	,12191	,000	,5317	1,0750
	Formula7	,80667*	,12191	,000	,5350	1,0783
	Formula8	1,92667*	,12191	,000	1,6550	2,1983
	Formula10	-1,09333*	,12191	,000	-1,3650	-,8217
Formula10	Formula6	1,89667*	,12191	,000	1,6250	2,1683
	Formula7	1,90000*	,12191	,000	1,6284	2,1716
	Formula8	3,02000*	,12191	,000	2,7484	3,2916
	Formula9	1,09333*	,12191	,000	,8217	1,3650

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

Laju Alir setelah Penyalutan

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
LajuAlir	Formula6	,358	3	.	,812	3	,144

Formula7	,329	3	.	,869	3	,292
Formula8	,275	3	.	,944	3	,542
Formula9	,368	3	.	,790	3	,090
Formula10	,179	3	.	,999	3	,948

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

LajuAlir

Levene Statistic	df1	df2	Sig.
3,089	4	10	,067

3. Anova

ANOVA

LajuAlir

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2,159	4	,540	2,475	,112
Within Groups	2,180	10	,218		
Total	4,339	14			

Sudut Istirahat Optimasi

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Sudut_Istirahat	Formula_1	,176	3	.	1,000	3	,979
	Formula_2	,337	3	.	,854	3	,251
	Formula_3	,176	3	.	1,000	3	,979
	Formula_4	,268	3	.	,950	3	,570
	Formula_5	,320	3	.	,883	3	,333

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

Sudut_Istirahat

Levene Statistic	df1	df2	Sig.
,446	4	10	,773

3. Anova

ANOVA

Sudut_Istirahat

	Sum of Squares	df	Mean Square	F	Sig.
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Between Groups	18,424	4	4,606	2,041	,164
Within Groups	22,568	10	2,257		
Total	40,992	14			

Sudut Istirahat Pelet

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
SudutIstirahat	Formula6	,214	3	.	,989	3	,804
	Formula7	,198	3	.	,995	3	,870
	Formula8	,317	3	.	,888	3	,349
	Formula9	,291	3	.	,925	3	,469
	Formula10	,223	3	.	,985	3	,764

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

SudutIstirahat

Levene Statistic	df1	df2	Sig.
2,085	4	10	,158

3. Anova

ANOVA

SudutIstirahat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	10,997	4	2,749	1,225	,360
Within Groups	22,447	10	2,245		
Total	33,443	14			

Sudut Istirahat setelah penyalutan

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
SudutIstirahat	Formula6	,289	3	.	,928	3	,480
	Formula7	,179	3	.	,999	3	,948
	Formula8	,348	3	.	,834	3	,199
	Formula9	,235	3	.	,978	3	,713

Formula10	,361	3	.	,807	3	,132
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a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

SudutIstirahat

Levene Statistic	df1	df2	Sig.
,485	4	10	,747

3. Anova

ANOVA

SudutIstirahat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9,096	4	2,274	,337	,847
Within Groups	67,447	10	6,745		
Total	76,543	14			

Distribusi Ukuran Partikel Optimasi

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DistribusiUkuranPartikel	Formula_1	,296	3	.	,918	3	,446
	Formula_2	,277	3	.	,942	3	,534
	Formula_3	,363	3	.	,803	3	,121
	Formula_4	,265	3	.	,954	3	,587
	Formula_5	,342	3	.	,845	3	,227

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

DistribusiUkuranPartikel

Levene Statistic	df1	df2	Sig.
3,295	4	10	,057

3. Anova

ANOVA

DistribusiUkuranPartikel

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,303	4	,076	9,134	,002
Within Groups	,083	10	,008		
Total	,386	14			

4. Post Hoc

Multiple Comparisons

Dependent Variable: DistribusiUkuranPartikel

LSD

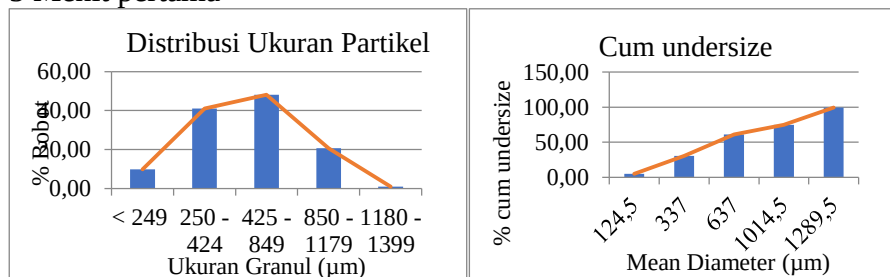
(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula_1	Formula_2	,229333*	,074333	,012	,06371	,39496
	Formula_3	,244000*	,074333	,008	,07838	,40962
	Formula_4	,024667	,074333	,747	-,14096	,19029
	Formula_5	,375000*	,074333	,001	,20938	,54062
Formula_2	Formula_1	-,229333*	,074333	,012	-,39496	-,06371
	Formula_3	,014667	,074333	,848	-,15096	,18029
	Formula_4	-,204667*	,074333	,020	-,37029	-,03904
	Formula_5	,145667	,074333	,078	-,01996	,31129
Formula_3	Formula_1	-,244000*	,074333	,008	-,40962	-,07838
	Formula_2	-,014667	,074333	,848	-,18029	,15096
	Formula_4	-,219333*	,074333	,015	-,38496	-,05371
	Formula_5	,131000	,074333	,108	-,03462	,29662
Formula_4	Formula_1	-,024667	,074333	,747	-,19029	,14096
	Formula_2	,204667*	,074333	,020	,03904	,37029
	Formula_3	,219333*	,074333	,015	,05371	,38496
	Formula_5	,350333*	,074333	,001	,18471	,51596
Formula_5	Formula_1	-,375000*	,074333	,001	-,54062	-,20938
	Formula_2	-,145667	,074333	,078	-,31129	,01996
	Formula_3	-,131000	,074333	,108	-,29662	,03462
	Formula_4	-,350333*	,074333	,001	-,51596	-,18471

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

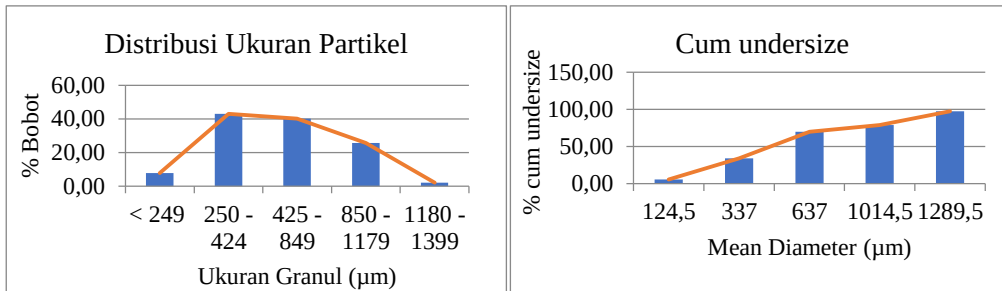
5. Grafik Distribusi Ukuran Partikel

Formula 1 (PVP 1%)

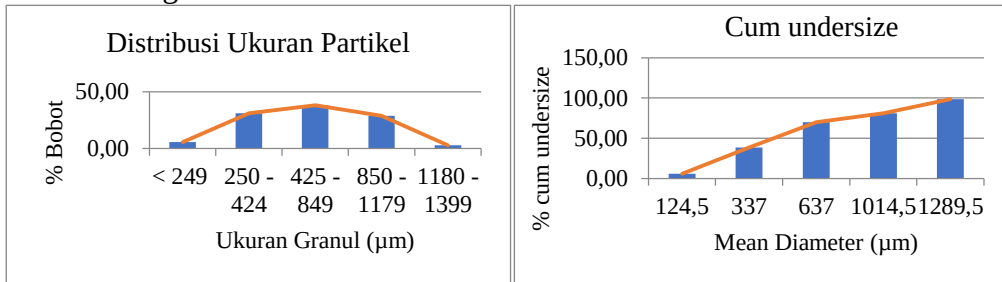
5 Menit pertama



5 Menit kedua

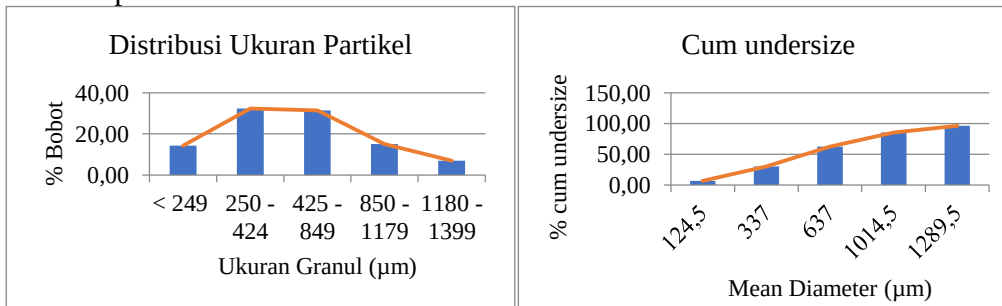


5 Menit ketiga

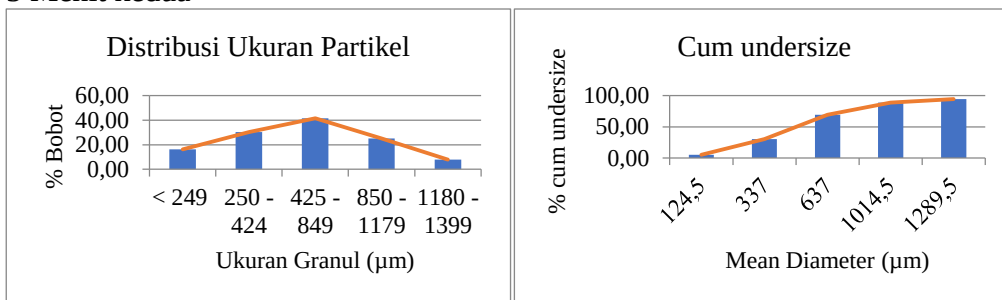


Formula 2 (PVP 3%)

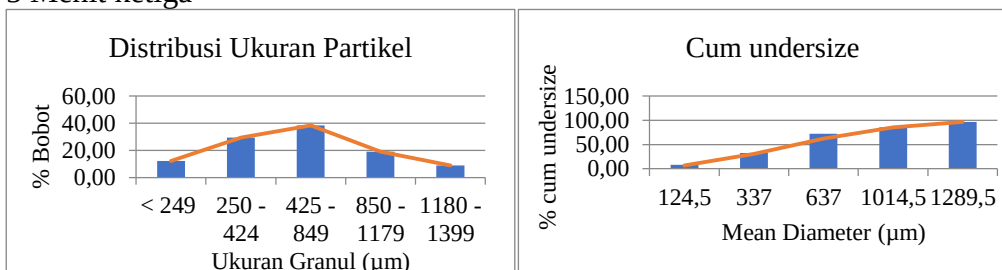
5 Menit pertama



5 Menit kedua

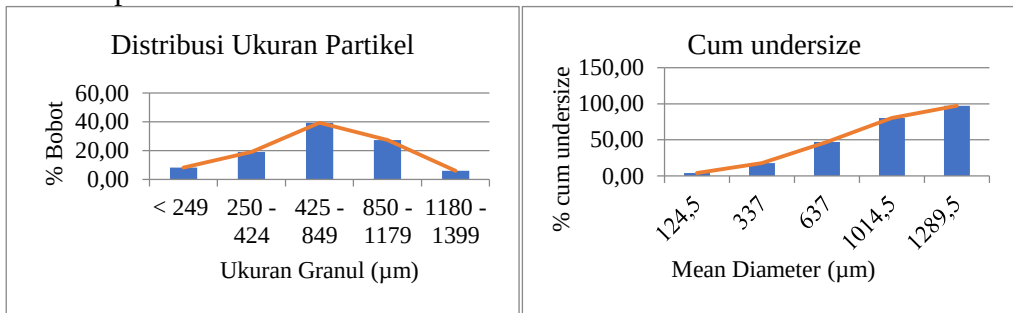


5 Menit ketiga

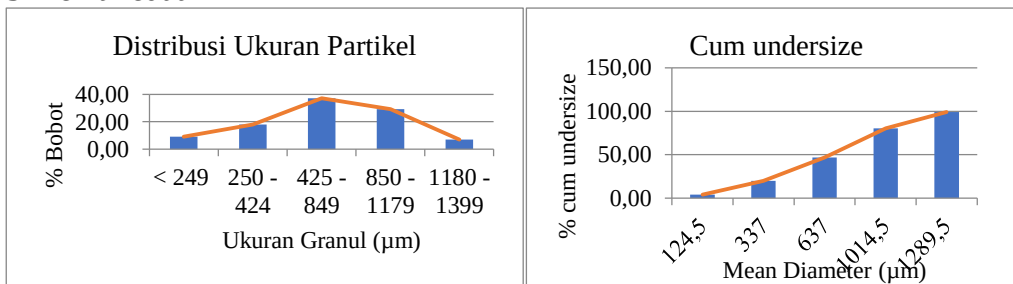


Formula 3 (PVP 5%)

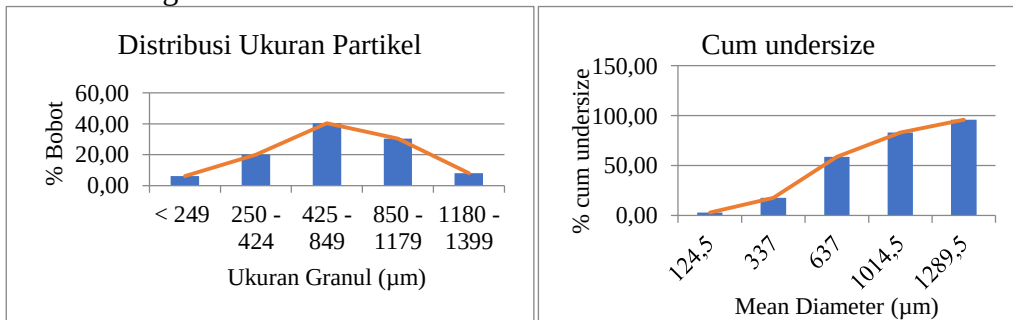
5 Menit pertama



5 Menit kedua

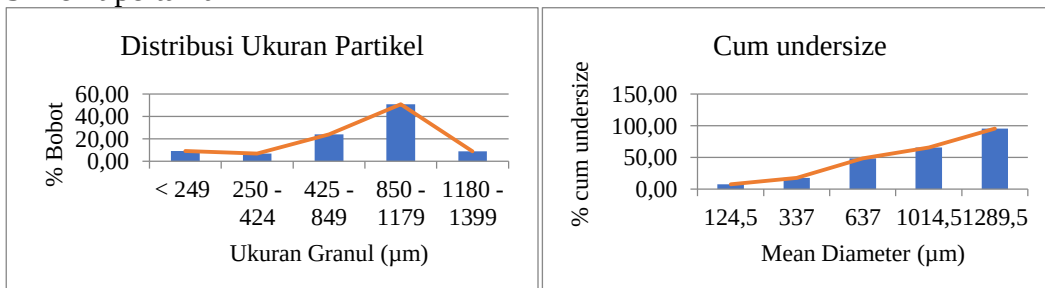


5 Menit ketiga

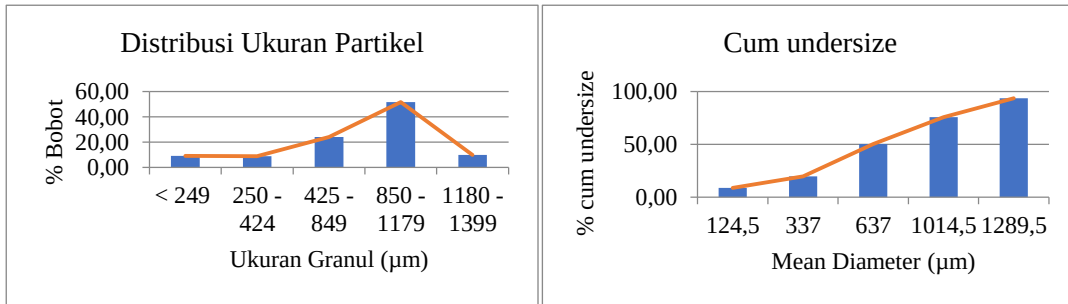


Formula 4 (PVP 7%)

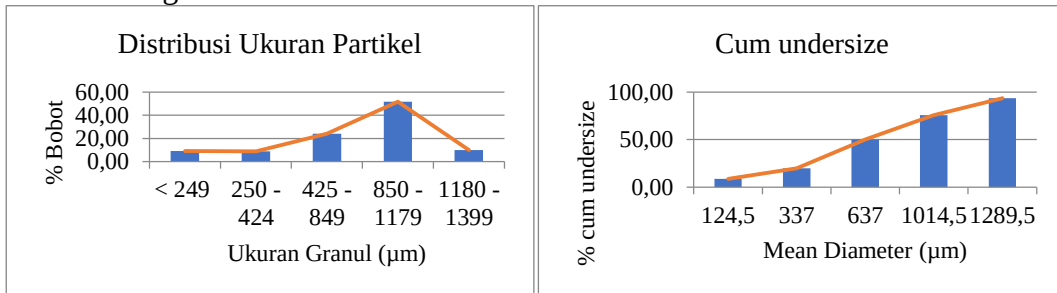
5 Menit pertama



5 Menit kedua

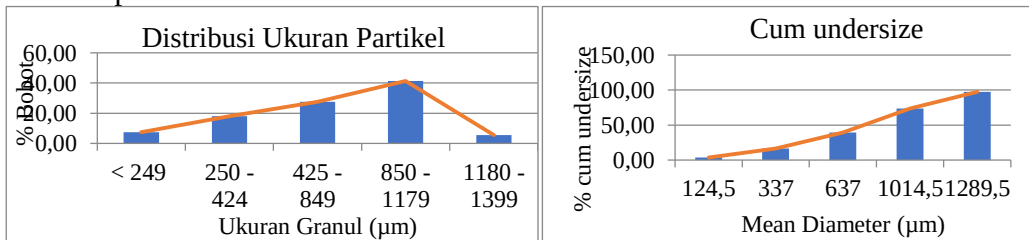


5 Menit ketiga

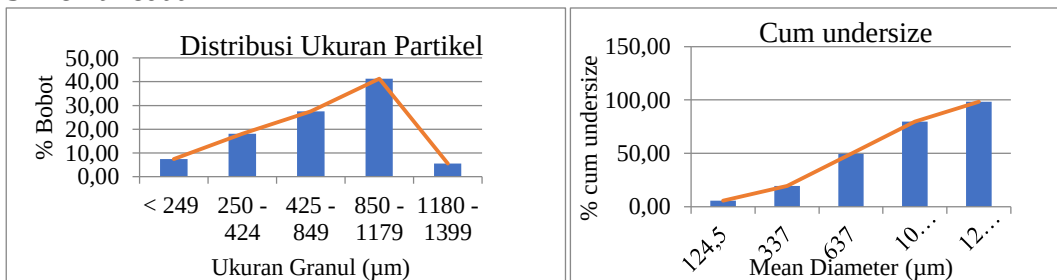


Formula 5 (PVP 9%)

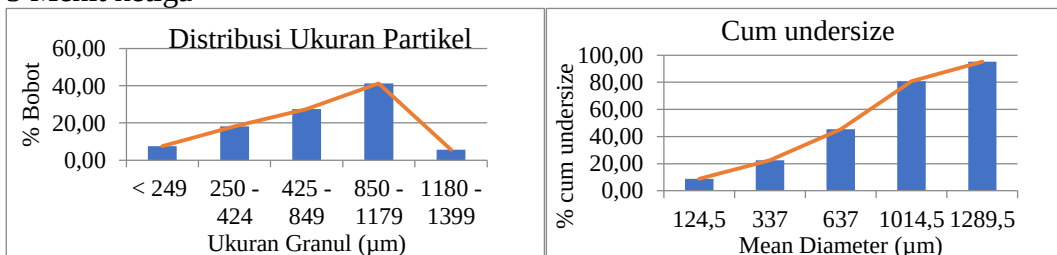
5 Menit pertama



5 Menit kedua



5 Menit ketiga



Distribusi Ukuran Partikel

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DistribusiUkuranPartikel	Formula6	,328	3	.	,871	3	,298
	Formula7	,177	3	.	1,000	3	,967
	Formula8	,224	3	.	,985	3	,762
	Formula9	,337	3	.	,855	3	,253
	Formula10	,385	3	.	,750	3	,000

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

DistribusiUkuranPartikel

Levene Statistic	df1	df2	Sig.
3,599	4	10	,046

3. Anova

ANOVA

DistribusiUkuranPartikel

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,159	4	,040	1,065	,423
Within Groups	,373	10	,037		
Total	,532	14			

4. Kruskal-Wallis Test

Test Statistics^{a,b}

	DistribusiUkura nPartikel
Chi-Square	6,946
df	4
Asymp. Sig.	,139

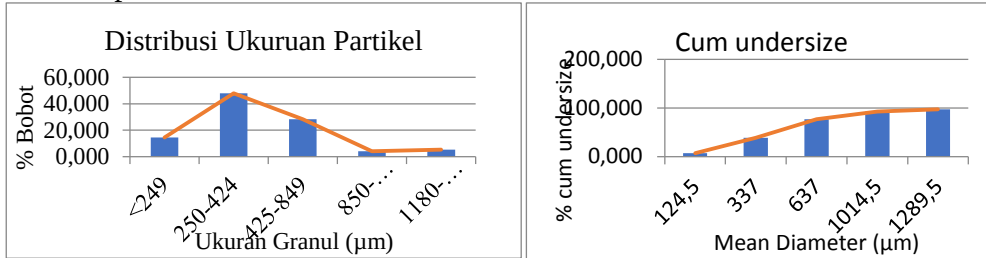
a. Kruskal Wallis Test

b. Grouping Variable: Formula

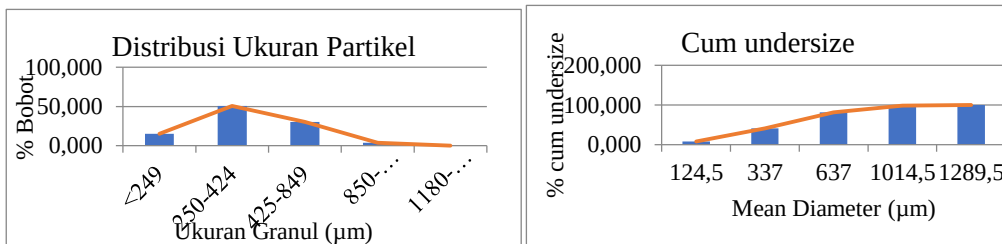
5. Grafik Distribusi Ukuran Partikel

Formula 6 5% (Ekstrak Katuk 2%, Kunyit 3%)

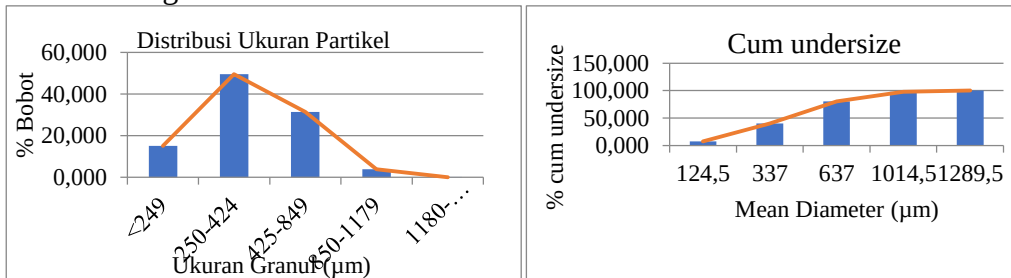
5 Menit pertama



5 Menit kedua

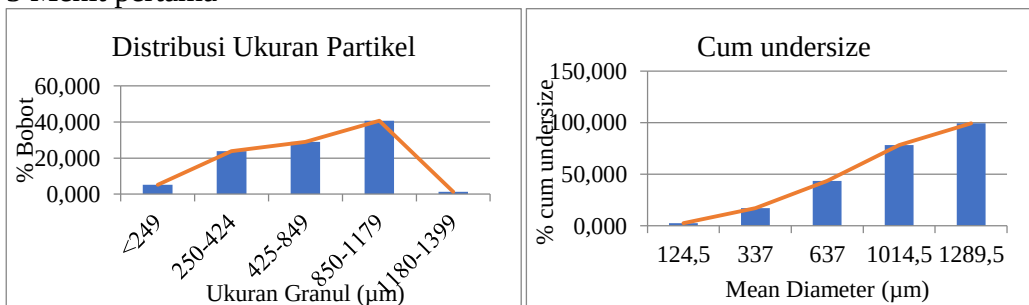


5 Menit ketiga

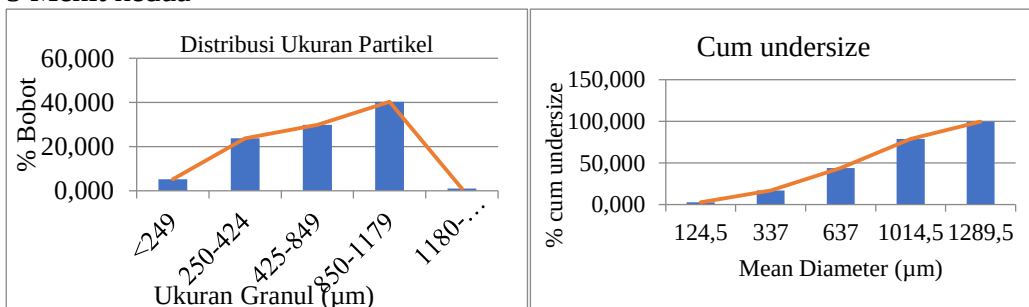


Formula 7 10% (Ekstrak Katuk 5%, Kunyit 5%)

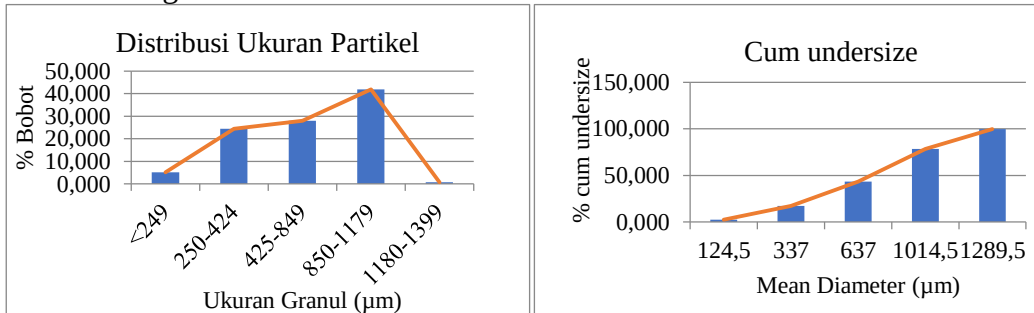
5 Menit pertama



5 Menit kedua

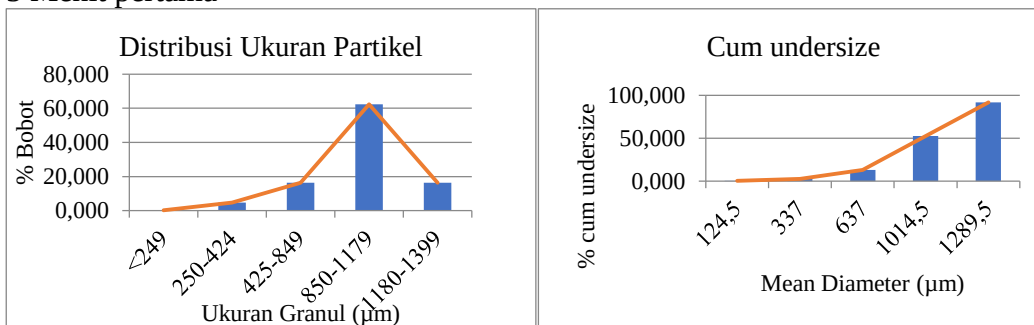


5 Menit ketiga

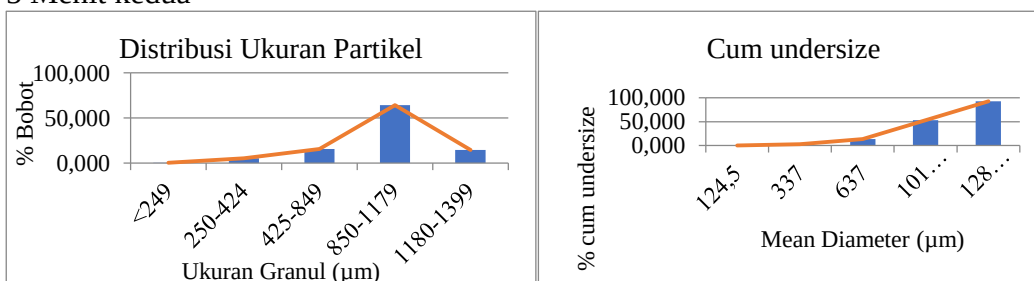


Formula 8 15% (Ekstrak Katuk 7,5%, Kunyit 7,5%)

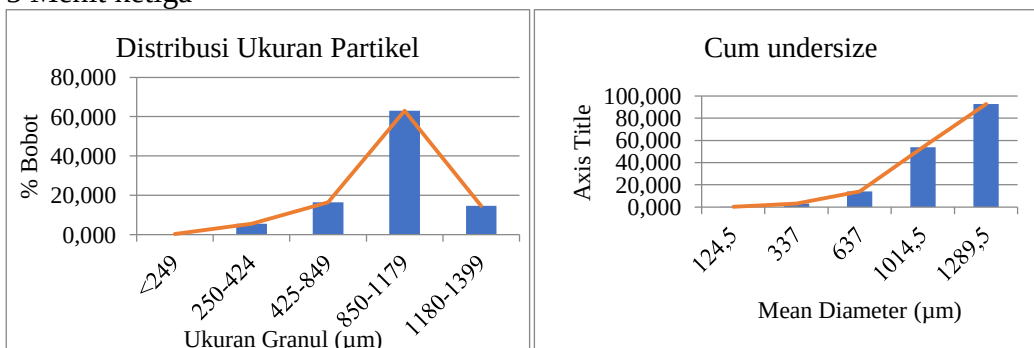
5 Menit pertama



5 Menit kedua

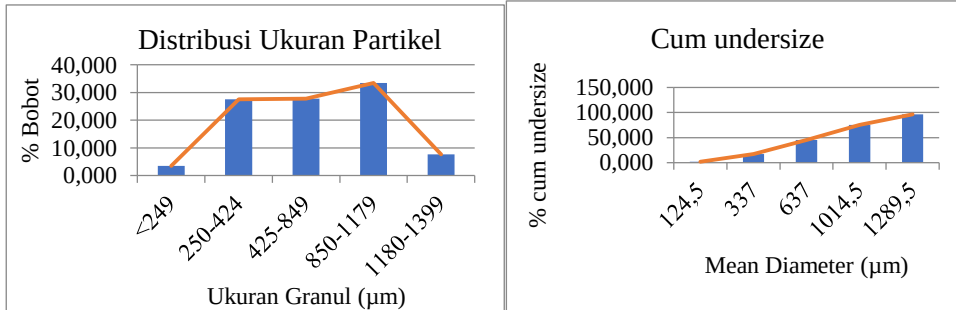


5 Menit ketiga

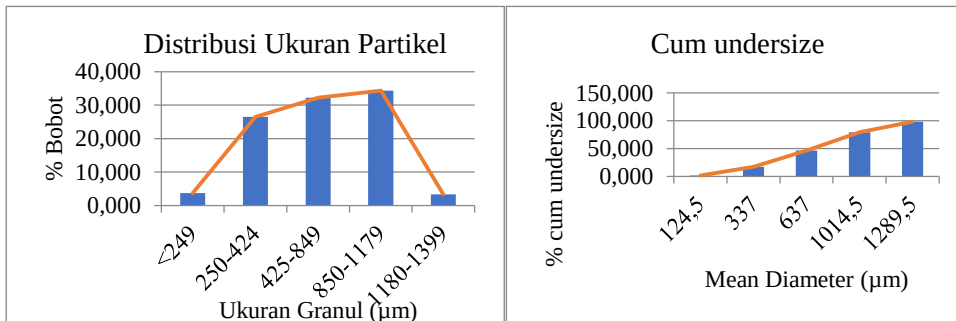


Formula 9 20% (Ekstrak Katuk 10%, Kunyit 10%)

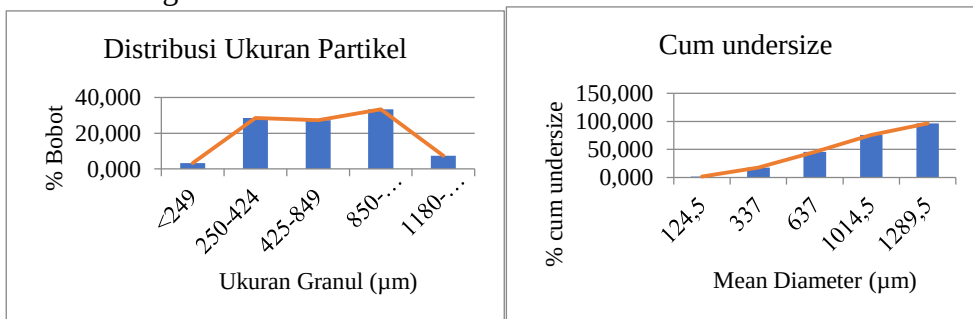
5 Menit pertama



5 Menit kedua

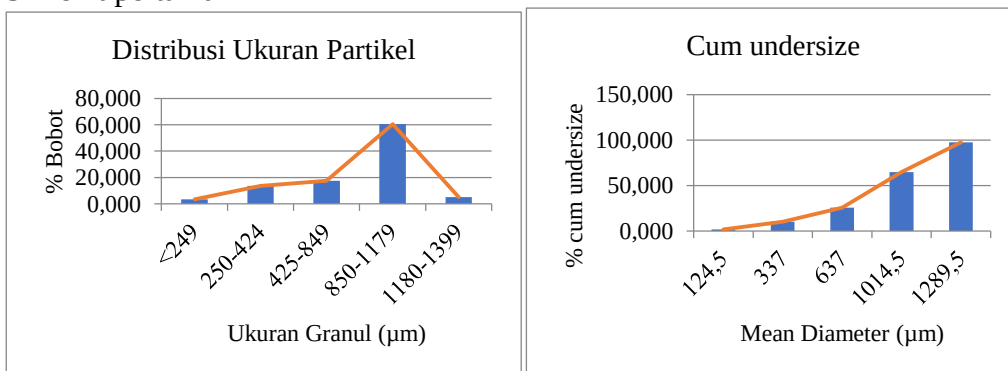


5 Menit ketiga

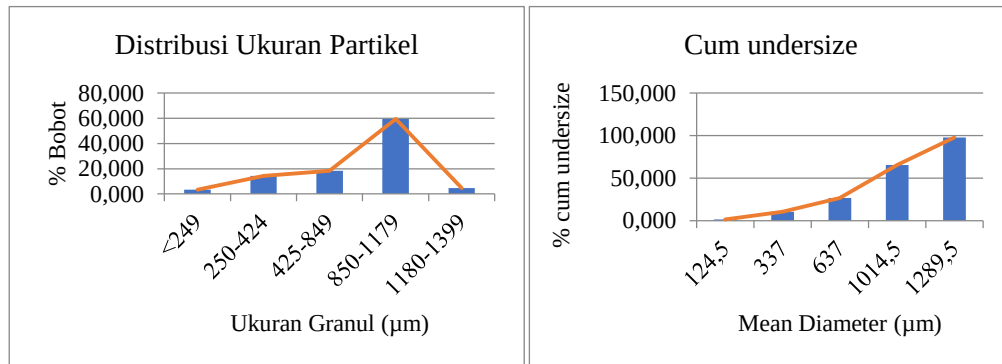


Formula 10 25% (Ekstrak Katuk 12,5%, Kunyit 12,5%)

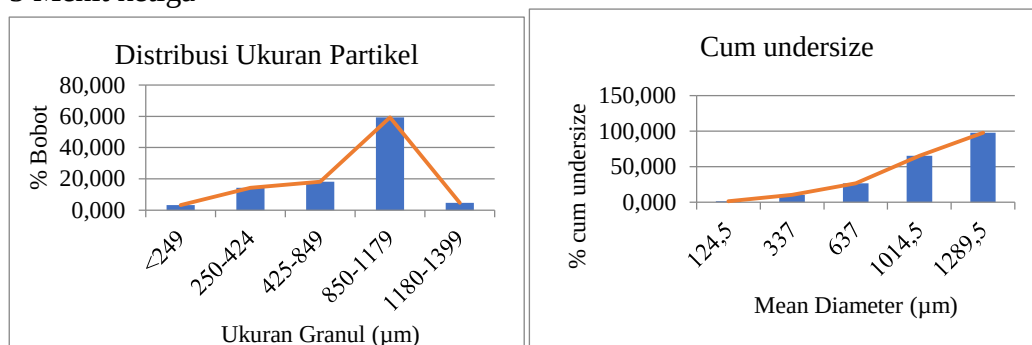
5 Menit pertama



5 Menit kedua



5 Menit ketiga



Distribusi Ukuran Partikel setelah penyalutan

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Distribusi_Ukuran _Partikel	Formula6	,253	3	.	,964	3	,637
	Formula7	,253	3	.	,964	3	,637
	Formula8	,180	3	.	,999	3	,945
	Formula9	,177	3	.	1,000	3	,967
	Formula10	,343	3	.	,842	3	,220

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

Distribusi Ukuran Partikel

Levene Statistic	df1	df2	Sig.
2,900	4	10	,078

3. Anova

ANOVA

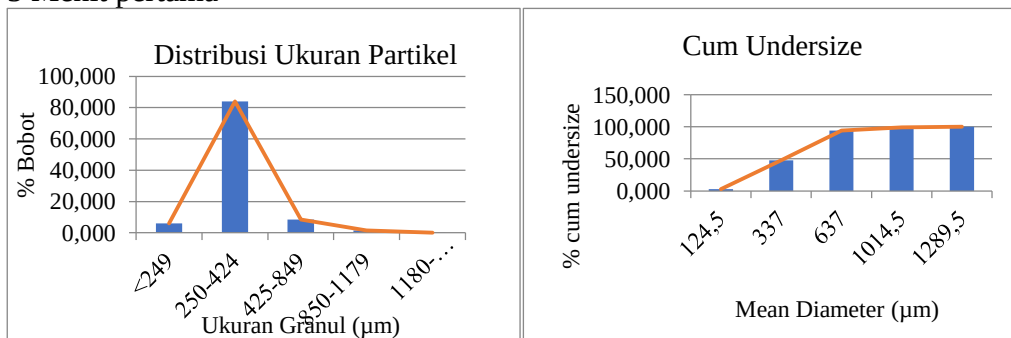
Distribusi Ukuran Partikel

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,128	4	,032	,832	,535
Within Groups	,383	10	,038		
Total	,511	14			

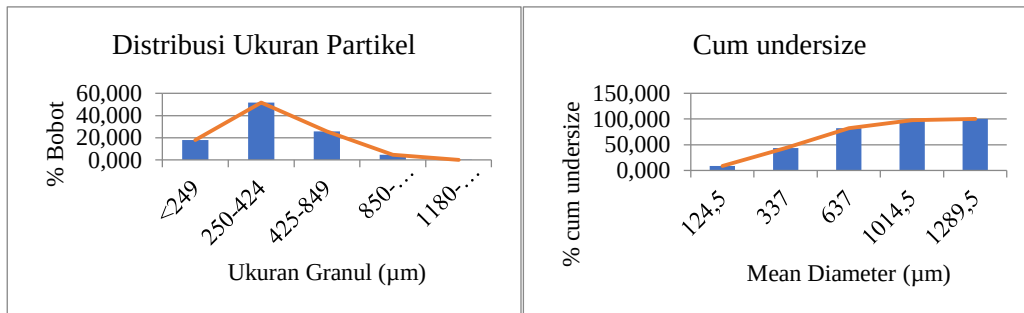
4. Grafik Distribusi Ukuran Partikel setelah penyalutan

Formula 6 5% (Ekstrak Katuk 2%, Kunyit 3%)

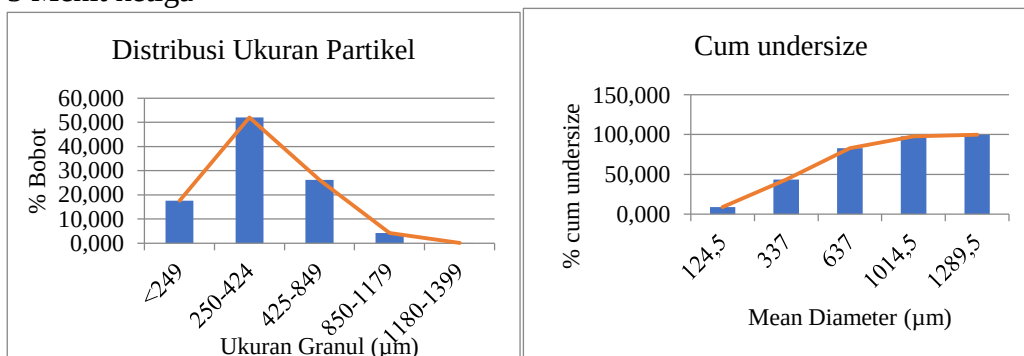
5 Menit pertama



5 Menit kedua

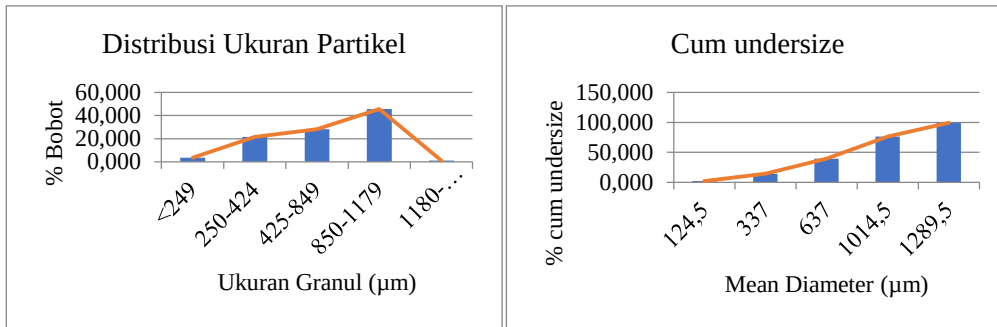


5 Menit ketiga

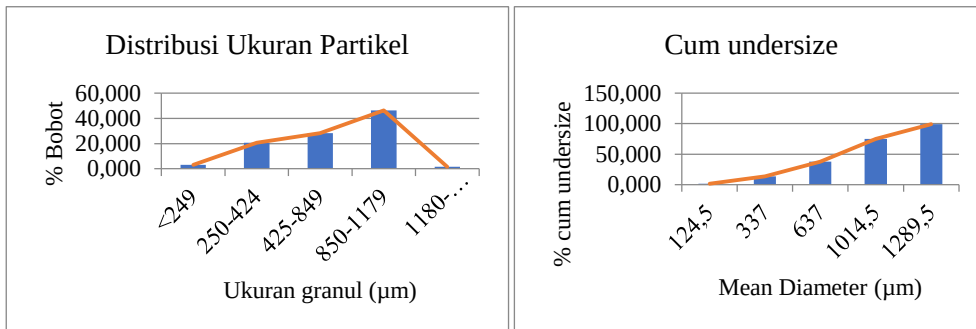


Formula 7 10% (Ekstrak Katuk 5%, Kunyit 5%)

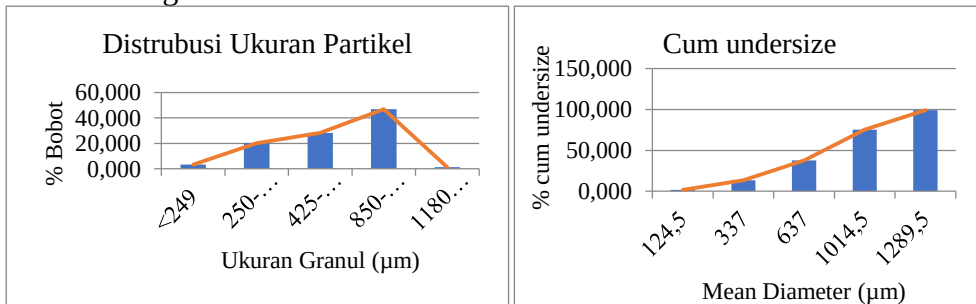
5 Menit pertama



5 Menit kedua

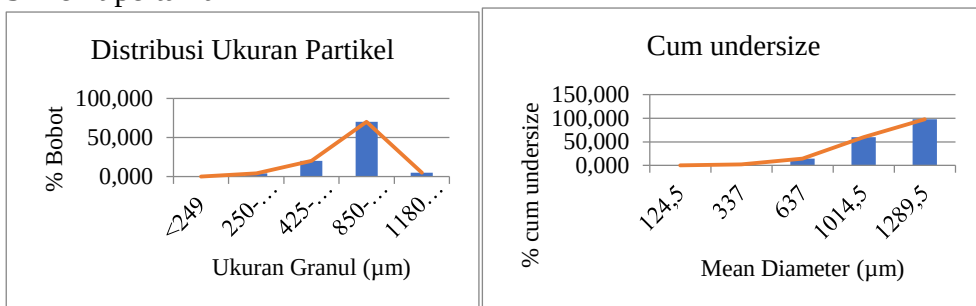


5 Menit ketiga

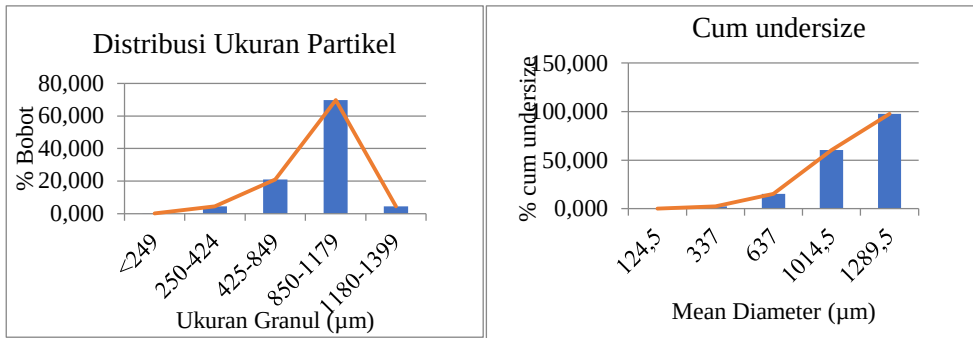


Formula 8 15% (Ekstrak Katuk 7,5%, Kunyit 7,5%)

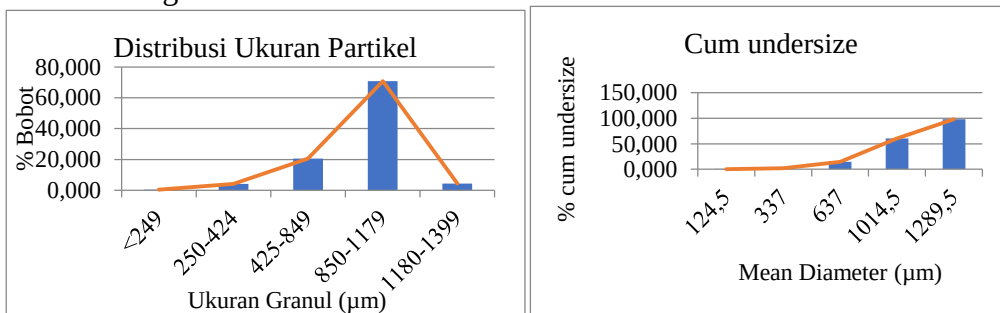
5 Menit pertama



5 Menit kedua

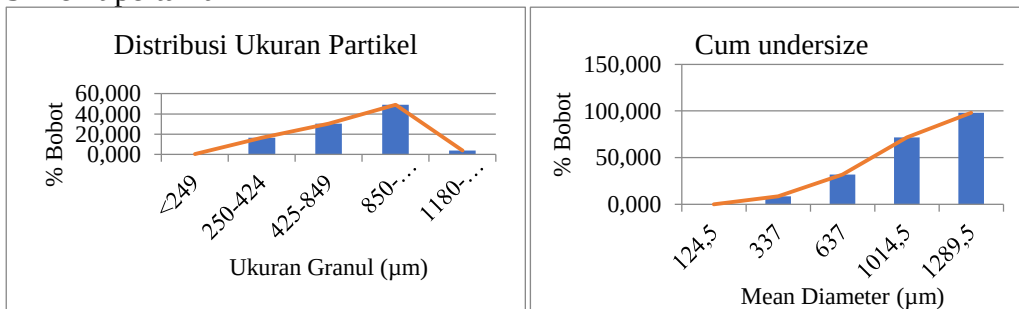


5 Menit ketiga

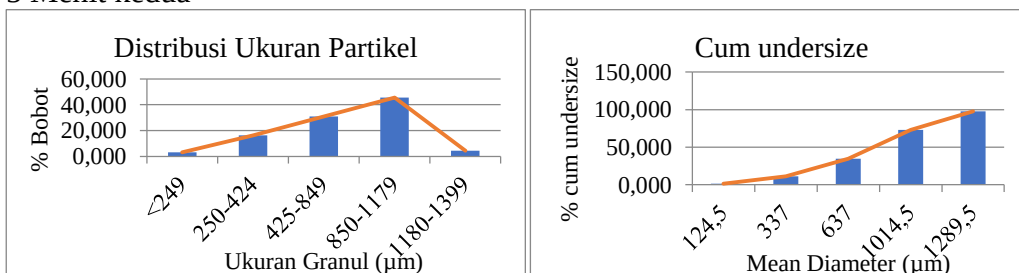


Formula 9 20% (Ekstrak Katuk 10%, Kunyit 10%)

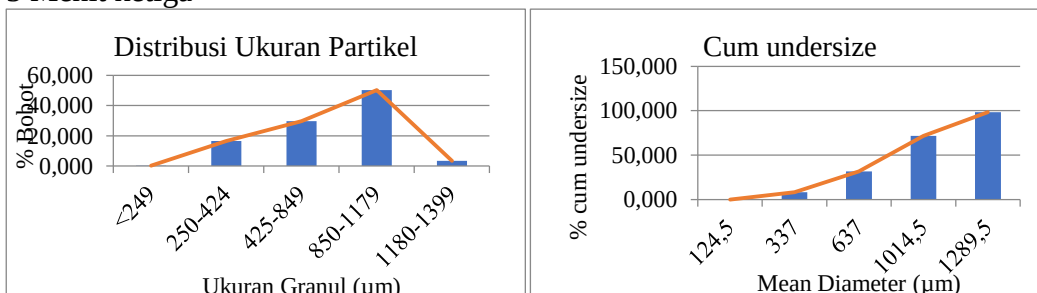
5 Menit pertama



5 Menit kedua

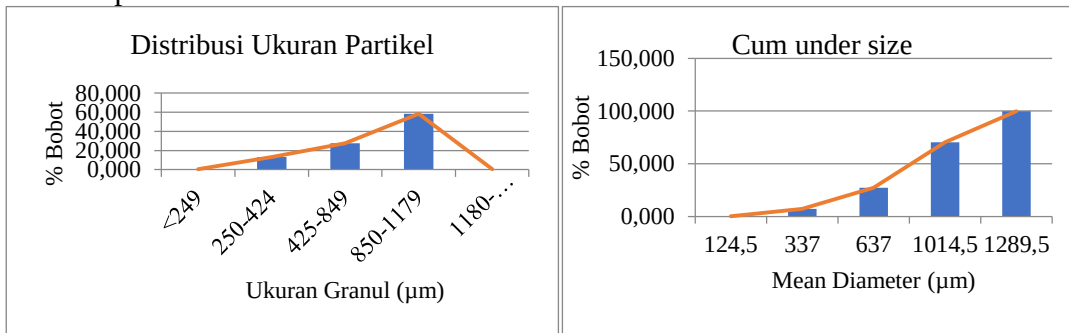


5 Menit ketiga

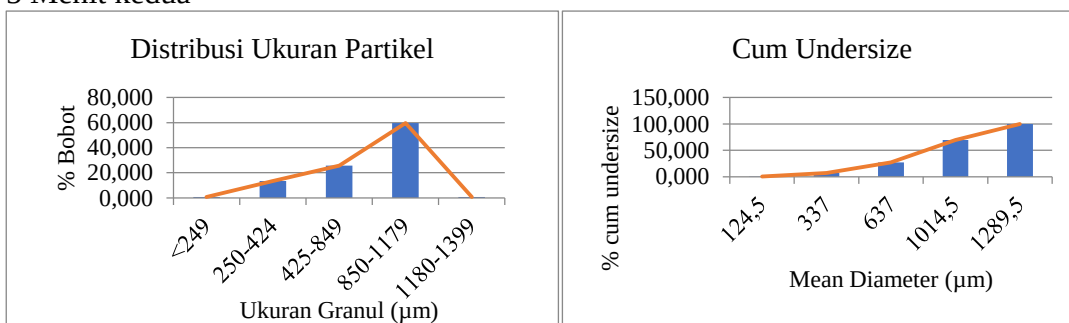


Formula 10 25% (Ekstrak Katuk 12,5%, Kunyit 12,5%)

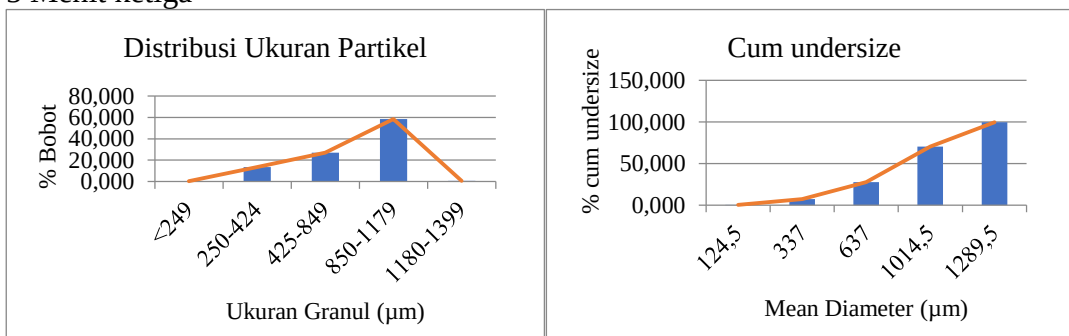
5 Menit pertama



5 Menit kedua



5 Menit ketiga



Waktu Melarut Pelet

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Waktu_Melarut	Formula6	,219	3	.	,987	3	,780
	Formula7	,268	3	.	,951	3	,573
	Formula8	,253	3	.	,964	3	,637
	Formula9	,286	3	.	,930	3	,490
	Formula10	,314	3	.	,893	3	,363

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

Waktu_Melarat

Levene Statistic	df1	df2	Sig.
1,052	4	10	,428

3. Anova

ANOVA

Waktu_Melarat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,484	4	,121	9,544	,002
Within Groups	,127	10	,013		
Total	,611	14			

4. Post Hoc

Multiple Comparisons

Dependent Variable: Waktu_Melarat

LSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula6	Formula7	-,08333	,09194	,386	-,2882	,1215
	Formula8	,20000	,09194	,055	-,0049	,4049
	Formula9	,07333	,09194	,444	-,1315	,2782
	Formula10	-,33667*	,09194	,004	-,5415	-,1318
Formula7	Formula6	,08333	,09194	,386	-,1215	,2882
	Formula8	,28333*	,09194	,012	,0785	,4882
	Formula9	,15667	,09194	,119	-,0482	,3615
	Formula10	-,25333*	,09194	,020	-,4582	-,0485
Formula8	Formula6	-,20000	,09194	,055	-,4049	,0049
	Formula7	-,28333*	,09194	,012	-,4882	-,0785
	Formula9	-,12667	,09194	,198	-,3315	,0782
	Formula10	-,53667*	,09194	,000	-,7415	-,3318
Formula9	Formula6	-,07333	,09194	,444	-,2782	,1315
	Formula7	-,15667	,09194	,119	-,3615	,0482
	Formula8	,12667	,09194	,198	-,0782	,3315
	Formula10	-,41000*	,09194	,001	-,6149	-,2051
Formula10	Formula6	,33667*	,09194	,004	,1318	,5415
	Formula7	,25333*	,09194	,020	,0485	,4582
	Formula8	,53667*	,09194	,000	,3318	,7415
	Formula9	,41000*	,09194	,001	,2051	,6149

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

Waktu Melarut Pelet setelah penyalutan

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Waktu_Melarut	Formula6	,269	3	.	,949	3	,567
	Formula7	,268	3	.	,951	3	,573
	Formula8	,253	3	.	,964	3	,637
	Formula9	,227	3	.	,983	3	,747
	Formula10	,276	3	.	,942	3	,537

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

Waktu_Melarut

Levene Statistic	df1	df2	Sig.
2,350	4	10	,125

3. Anova

ANOVA

Waktu_Melarut

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3,772	4	,943	56,128	,000
Within Groups	,168	10	,017		
Total	3,940	14			

4. Post Hoc

Multiple Comparisons

Dependent Variable: Waktu_Melarut

LSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula6	Formula7	-1,15000*	,10583	,000	-1,3858	-,9142
	Formula8	,13333	,10583	,236	-,1025	,3691
	Formula9	-,92333*	,10583	,000	-1,1591	-,6875
	Formula10	-,40333*	,10583	,003	-,6391	-,1675
Formula7	Formula6	1,15000*	,10583	,000	,9142	1,3858
	Formula8	1,28333*	,10583	,000	1,0475	1,5191
	Formula9	,22667	,10583	,058	-,0091	,4625
	Formula10	,74667*	,10583	,000	,5109	,9825
Formula8	Formula6	-,13333	,10583	,236	-,3691	,1025
	Formula7	-1,28333*	,10583	,000	-1,5191	-1,0475

Formula9	Formula9	-1,05667*	,10583	,000	-1,2925	-,8209
	Formula10	-,53667*	,10583	,000	-,7725	-,3009
	Formula6	,92333*	,10583	,000	,6875	1,1591
	Formula7	-,22667	,10583	,058	-,4625	,0091
	Formula8	1,05667*	,10583	,000	,8209	1,2925
Formula10	Formula10	,52000*	,10583	,001	,2842	,7558
	Formula6	,40333*	,10583	,003	,1675	,6391
	Formula7	-,74667*	,10583	,000	-,9825	-,5109
	Formula8	,53667*	,10583	,000	,3009	,7725
	Formula9	-,52000*	,10583	,001	-,7558	-,2842

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

Volume Sedimentasi Pelet

1. Normalitas

Tests of Normality							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Volume_Sedimentasi	Formula6	,175	3	.	1,000	3	1,000
	Formula7	,175	3	.	1,000	3	1,000
	Formula8	,175	3	.	1,000	3	1,000
	Formula9	,253	3	.	,964	3	,637
	Formula10	,175	3	.	1,000	3	1,000

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

Volume Sedimentasi

Levene Statistic	df1	df2	Sig.
,327	4	10	,854

3. Anova

ANOVA

Volume Sedimentasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,003	4	,001	5,184	,016
Within Groups	,001	10	,000		
Total	,004	14			

4. Post Hoc

Multiple Comparisons

Dependent Variable: Volume_Sedimentasi

LSD

(I) Formula	(J) Formula	Mean	Std. Error	Sig.	95% Confidence Interval
-------------	-------------	------	------------	------	-------------------------

		Difference (I-J)			Lower Bound	Upper Bound
Formula6	Formula7	,00000	,00919	1,000	-,0205	,0205
	Formula8	,03000*	,00919	,009	,0095	,0505
	Formula9	,02333*	,00919	,029	,0029	,0438
	Formula10	,00000	,00919	1,000	-,0205	,0205
Formula7	Formula6	,00000	,00919	1,000	-,0205	,0205
	Formula8	,03000*	,00919	,009	,0095	,0505
	Formula9	,02333*	,00919	,029	,0029	,0438
	Formula10	,00000	,00919	1,000	-,0205	,0205
Formula8	Formula6	-,03000*	,00919	,009	-,0505	-,0095
	Formula7	-,03000*	,00919	,009	-,0505	-,0095
	Formula9	-,00667	,00919	,485	-,0271	,0138
	Formula10	-,03000*	,00919	,009	-,0505	-,0095
Formula9	Formula6	-,02333*	,00919	,029	-,0438	-,0029
	Formula7	-,02333*	,00919	,029	-,0438	-,0029
	Formula8	,00667	,00919	,485	-,0138	,0271
	Formula10	-,02333*	,00919	,029	-,0438	-,0029
Formula10	Formula6	,00000	,00919	1,000	-,0205	,0205
	Formula7	,00000	,00919	1,000	-,0205	,0205
	Formula8	,03000*	,00919	,009	,0095	,0505
	Formula9	,02333*	,00919	,029	,0029	,0438

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

Volume Sedimentasi setelah penyalutan

1. Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Volume_Sedimentasi	Formula6	,175	3	.	1,000	3	1,000
	Formula7	,175	3	.	1,000	3	1,000
	Formula8	,175	3	.	1,000	3	1,000
	Formula9	,175	3	.	1,000	3	1,000
	Formula10	,175	3	.	1,000	3	1,000

a. Lilliefors Significance Correction

2. Homogenitas

Test of Homogeneity of Variances

Volume_Sedimentasi

Levene Statistic	df1	df2	Sig.
,000	4	10	1,000

3. Anova

ANOVA

Volume_Sedimentasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,000	4	,000	,900	,499
Within Groups	,001	10	,000		
Total	,001	14			

Lampiran 13 Uji Hedonik

1. Kesiediaan Etik



RISET DAN TEKNOLOGI
UNIVERSITAS PADJADJARAN
KOMISI ETIK PENELITIAN
RESEARCH ETHICS COMMITTEE

Jl. Prof. H. Djengir No. 25 Bandung 40132
Telp. & Fax. 022 25330077 website: www.unpad.ac.id email: subretnasat@unpad.ac.id

PSP untuk orang dewasa

Persetujuan Setelah Penjelasan (PSP)
UNTUK IKUT SERTA DALAM PENELITIAN
(INFORMED CONSENT)

Saya telah membaca atau memperoleh penjelasan, sepenuhnya menyadari, mengerti, dan memahami tentang tujuan, manfaat, dan risiko yang mungkin timbul dalam penelitian, serta telah diberi kesempatan untuk bertanya dan telah dijawab dengan memuaskan, juga sewaktu-waktu dapat mengundurkan diri dari keikutsertaannya, maka saya setuju/tidak setuju^{*)} ikut dalam penelitian ini, yang berjudul: Formulasi Minuman Pelet Instan Ekstrak Kunyit (*Curcuma longa* L.) dengan Metode Ekstrusi Sferonisasi

Saya dengan sukarela memilih untuk ikut serta dalam penelitian ini tanpa tekanan/paksaan siapapun. Saya akan diberikan salinan lembar penjelasan dan formulir persetujuan yang telah saya tandatangani untuk arsip saya.

Saya setuju:

Ya/Tidak^{*)}

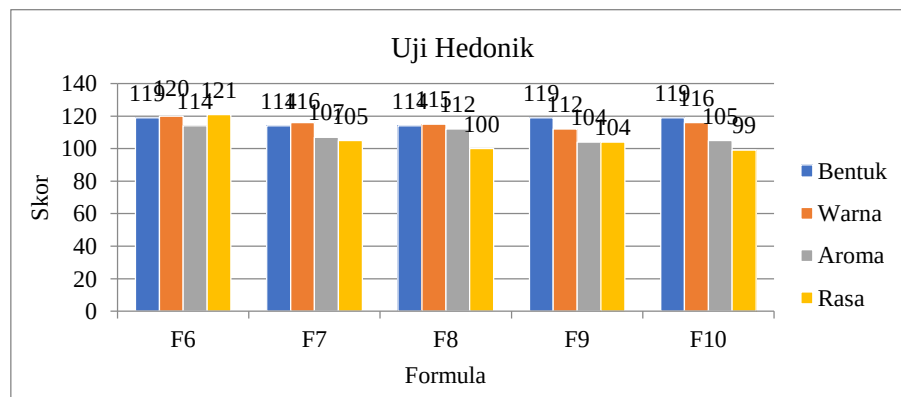
	Tgl:	Tanda tangan (bila tidak bisa dapat digunakan cap jempol)
Nama Peserta: Lang Diah P	14/01/22	Diah
Usia: 25 thn		
Alamat: Taman Cipadung Indah		
Nama Peneliti: Alwina Dahlaning		
Nama Saksi: Lina Manjara		

*) coret yang tidak perlu

2. Data Hasil Penilaian

Pengamatan	Formula	Sangat Tidak Suka (1)	Tidak Suka (2)	Cukup (3)	Suka (4)	Sangat Suka (5)	Jumlah
	Skala	1	2	3	4	5	
Bentuk	F6			7	17	6	30
	F7			10	16	4	30
	F8		1	8	17	4	30
	F9			7	17	6	30
	F10			8	15	7	30
Warna	F6			5	20	5	30
	F7			7	20	3	30
	F8			8	19	3	30
	F9		2	10	12	6	30
	F10		1	9	13	7	30
Aroma	F6			11	14	5	30
	F7			15	13	2	30
	F8			14	10	6	30
	F9		3	14	9	4	30
	F10		3	12	12	3	30
Rasa	F6		1	3	20	6	30
	F7		1	16	10	3	30
	F8		1	19	9	1	30
	F9		3	13	11	3	30
	F10		6	12	9	3	30

3. Grafik



4. Jumlah Uji hedonik

Formula	Bentuk	Warna	Aroma	Rasa	Jumlah
F6	119	120	114	121	474
F7	114	116	107	105	442
F8	114	115	112	100	441
F9	119	112	104	104	439
F10	119	116	105	99	439

Lampiran 14 Surat Pernyataan Bebas Plagiasi

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,

Nama : Alvina Dahliana

N P M : 11181191

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

PEMANFAATAN EKSTRAK KATUK (*Sauropus androgynus* L) DAN KUNYIT (*Curcuma longa* L) PADA FORMULASI MINUMAN PELET INSTAN UNTUK KESEHATAN DENGAN METODE EKSTRUSI SFERONISASI

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 ,05 Agustus 2022.

Yang membuat pernyataan,

(Alvina Dahliana)

11181191

Lampiran 15 Persetujuan untuk dipublikasikan di media online

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,

Nama : Alvina Dahliana

N P M : 11181191

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

PEMANFAATAN EKSTRAK KATUK (*Sauropus androgynus* L) DAN KUNYIT (*Curcuma longa* L) PADA FORMULASI MINUMAN PELET INSTAN UNTUK KESEHATAN DENGAN METODE EKSTRUSI SFERONISASI

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Bandung ,05 Agustus 2022.

Yang membuat pernyataan,



(Alvina Dahliana)

11181191