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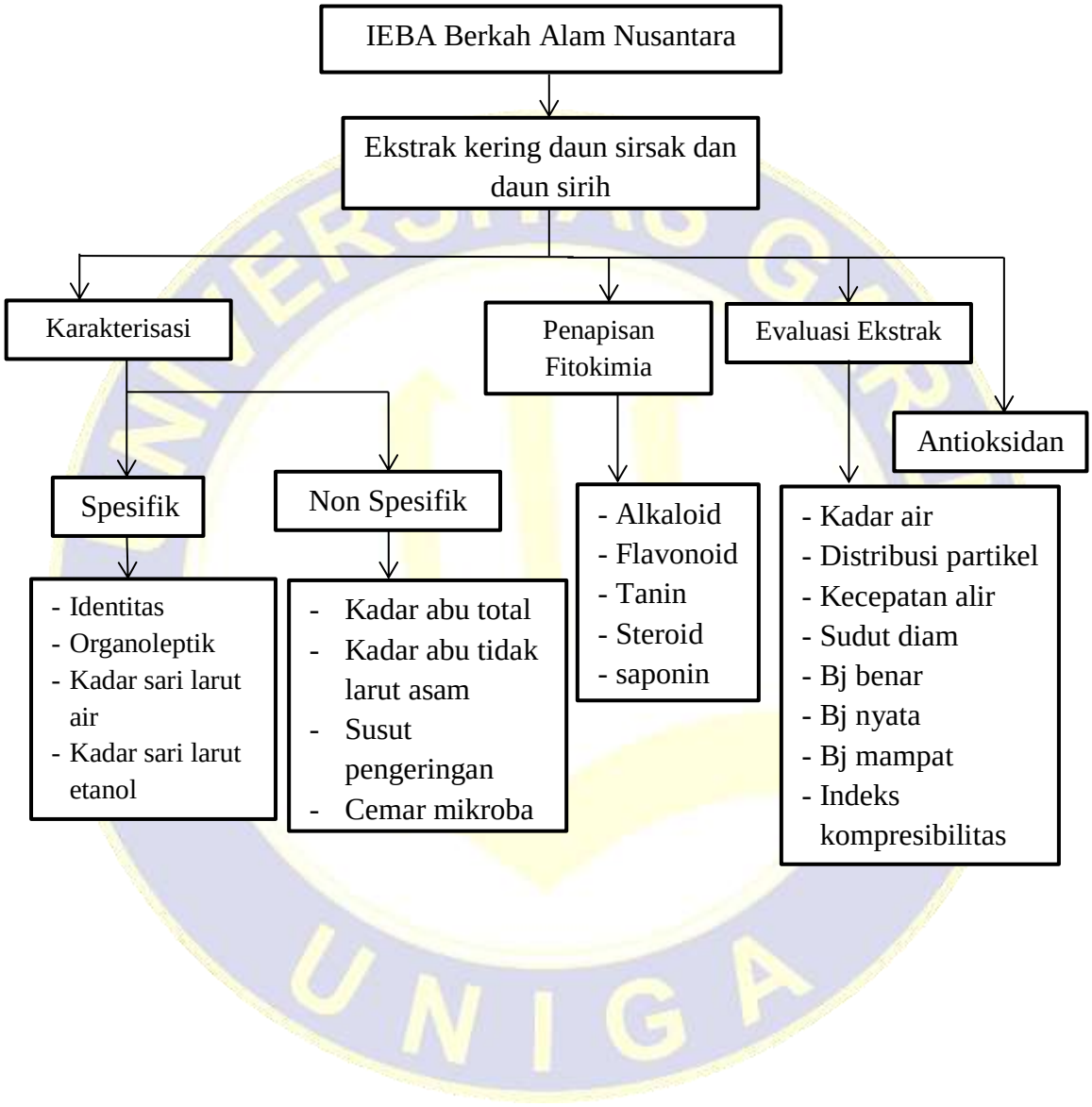
LAMPIRAN 1

DIAGRAM ALUR PENELITIAN



LAMPIRAN 2

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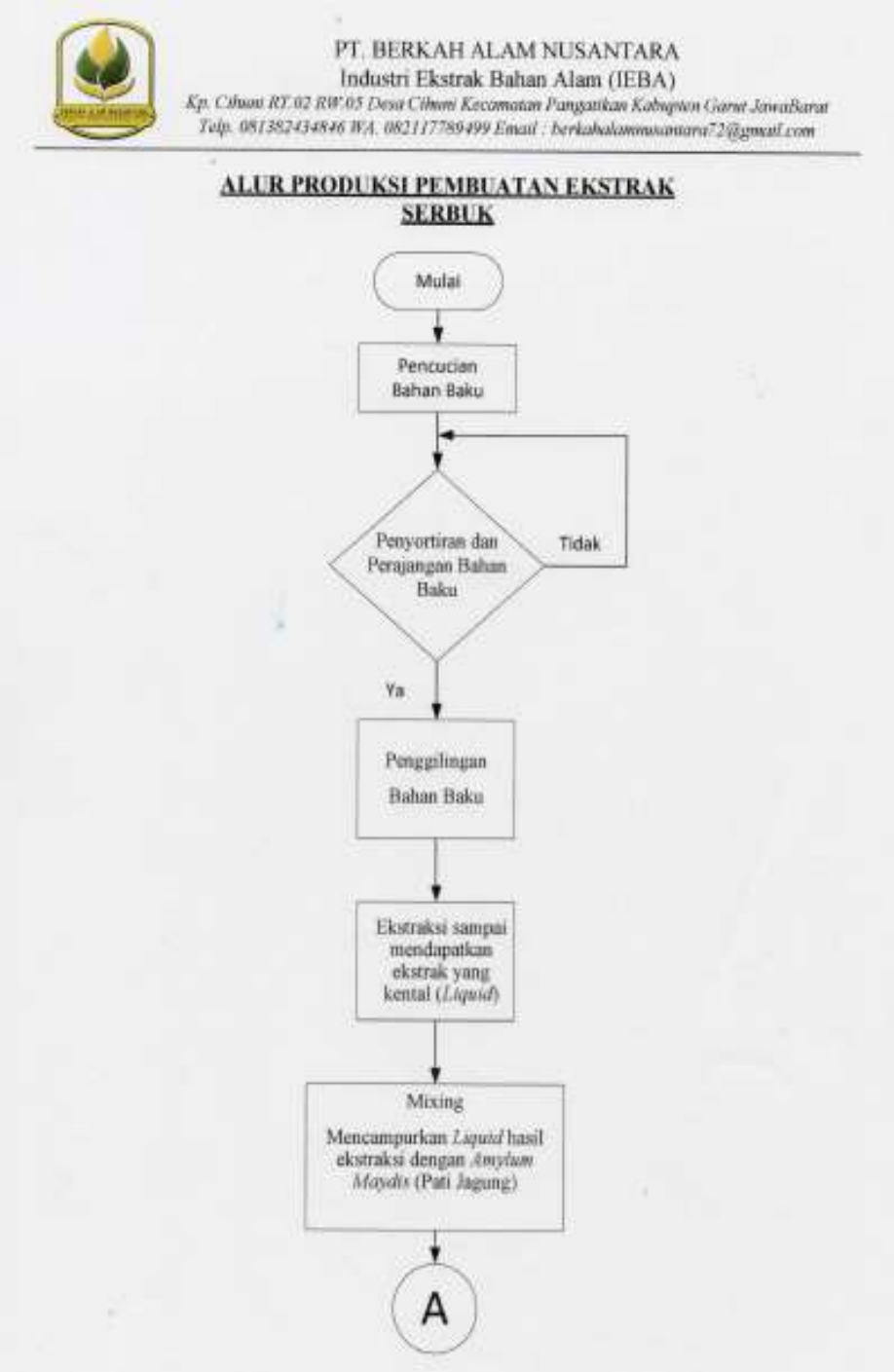

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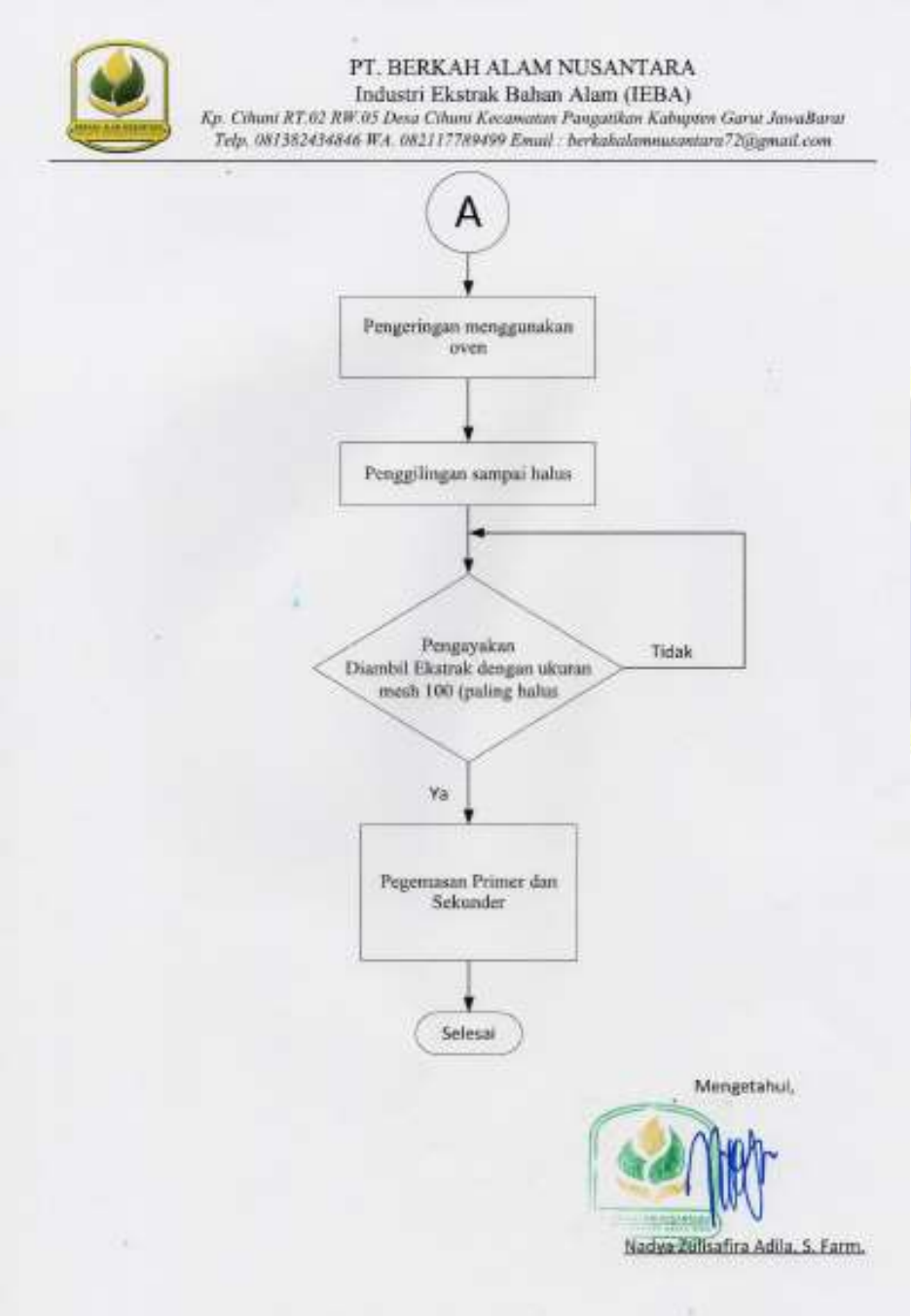
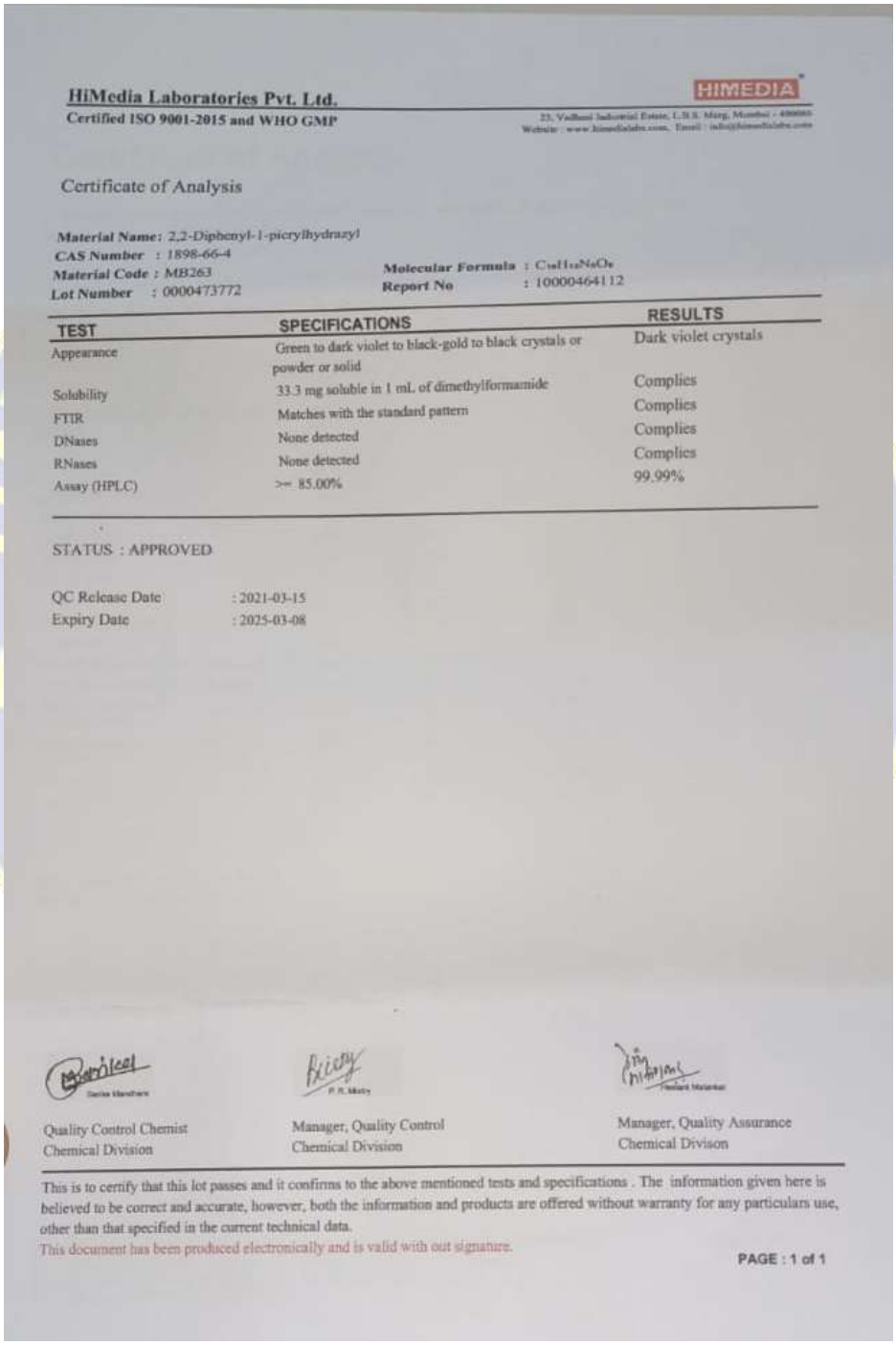


LAMPIRAN 3

SERTIFIKAT DPPH



HiMedia Laboratories Pvt. Ltd.
Certified ISO 9001-2015 and WHO GMP

HIMEDIA

23, Vadhani Industrial Estate, L.B.S. Marg, Mumbai - 400086
Website : www.himedialabs.com, Email : info@himedialabs.com

Certificate of Analysis

Material Name: 2,2-Diphenyl-1-picrylhydrazyl
CAS Number : 1898-66-4
Material Code : MB263
Lot Number : 0000473772

Molecular Formula : $C_{18}H_{12}N_5O_6$
Report No : 10000464112

TEST	SPECIFICATIONS	RESULTS
Appearance	Green to dark violet to black-gold to black crystals or powder or solid	Dark violet crystals
Solubility	33.3 mg soluble in 1 mL of dimethylformamide	Complies
FTIR	Matches with the standard pattern	Complies
DNases	None detected	Complies
RNases	None detected	Complies
Assay (HPLC)	>= 85.00%	99.99%

STATUS : APPROVED

QC Release Date : 2021-03-15
Expiry Date : 2025-03-08

Quality Control Chemist
Chemical Division

Manager, Quality Control
Chemical Division

Manager, Quality Assurance
Chemical Divison

This is to certify that this lot passes and it confirms to the above mentioned tests and specifications . The information given here is believed to be correct and accurate, however, both the information and products are offered without warranty for any particulars use, other than that specified in the current technical data.
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LAMPIRAN 4

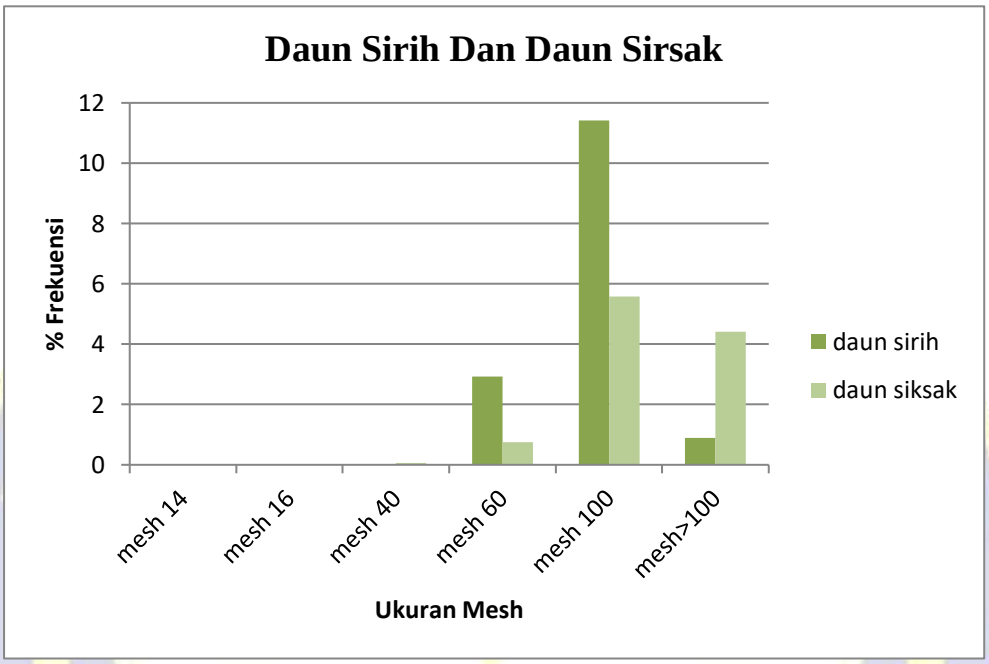
IDENTITAS EKSTRAK KERING

Daun Sirsak (*Annona muricata L.)*

Daun Sirih (*Piper betle L.)*

LAMPIRAN 5

GRAFIK DISTRIBUSI PARTIKEL EKSTRAK



LAMPIRAN 6

KARAKTERISASI EKSTRAK KERING

Kadar Sari Larut Air

Kadar Sari Larut Etanol

Kadar Abu Total

Kadar Abu Tidal Larut Asam

Susut Pengeringan

LAMPIRAN 7

PENAPISAN FITOKIMIA

Alkaloid

Flavonoid

Tanin

Steroid

Saponin

LAMPIRAN 8

EVALUASI EKSTRAK

Kadar Air

Distribusi Partikel

Kecepatan Alir

Sudut Diam

Bobot Jenis Benar

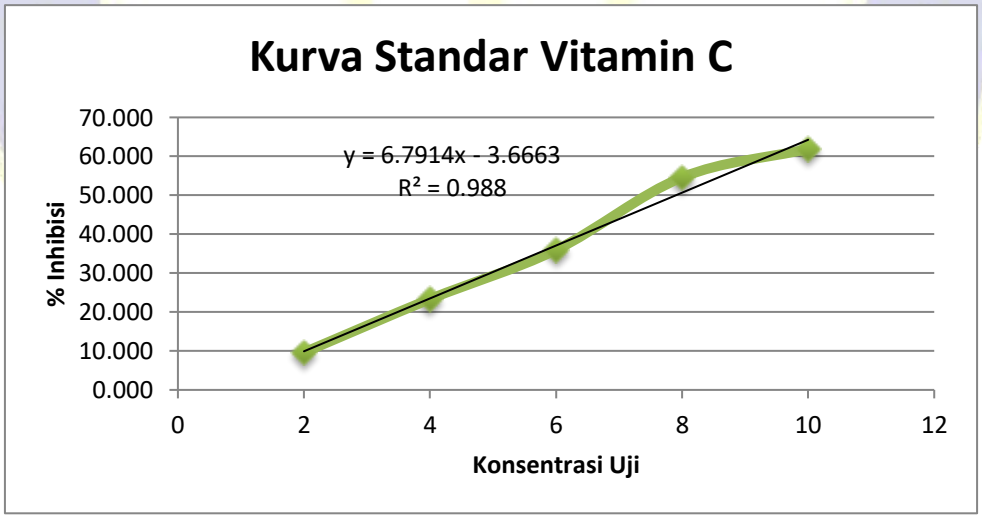
Bobot Nyata

Bobot Mampat

LAMPIRAN 9

AKTIVITAS ANTIOKSIDAN VITAMIN C

	Absorban				SD	% Inhibisi	IC 50 (ppm)
	Uji ke-1	Uji ke-2	Uji ke -3	Rata-rata			
Blanko	0,705	0,740	0,707	0,717			
Konsentrasi Uji							
2	0,623	0,673	0,649	0,648	0,025	9,619	7,902
4	0,554	0,554	0,542	0,550	0,007	23,327	
6	0,453	0,443	0,482	0,459	0,020	35,967	
8	0,313	0,323	0,341	0,326	0,014	54,600	
10	0,258	0,294	0,268	0,273	0,019	61,896	

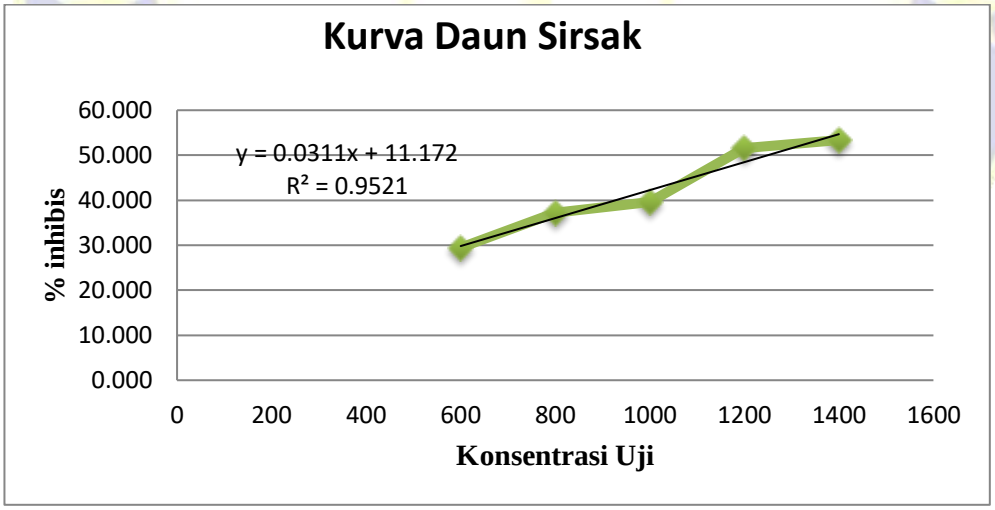


LAMPIRAN 10

AKTIVITAS ANTIOKSIDAN

DAUN SIRSAK *(Annona muricata L.)*

	Absorban				SD	% Inhibisi	IC 50 (ppm)
	Uji ke-1	Uji ke-2	Uji ke -3	Rata-rata			
Blanko	0,614	0,547	0,546	0,569			
Konsentrasi Uji							
600	0,400	0,402	0,402	0,401	0,001	29,467	1248
800	0,380	0,346	0,346	0,357	0,020	37,200	
1000	0,343	0,343	0,344	0,343	0,001	39,660	
1200	0,277	0,275	0,275	0,276	0,001	51,552	
1400	0,266	0,265	0,265	0,265	0,001	53,368	

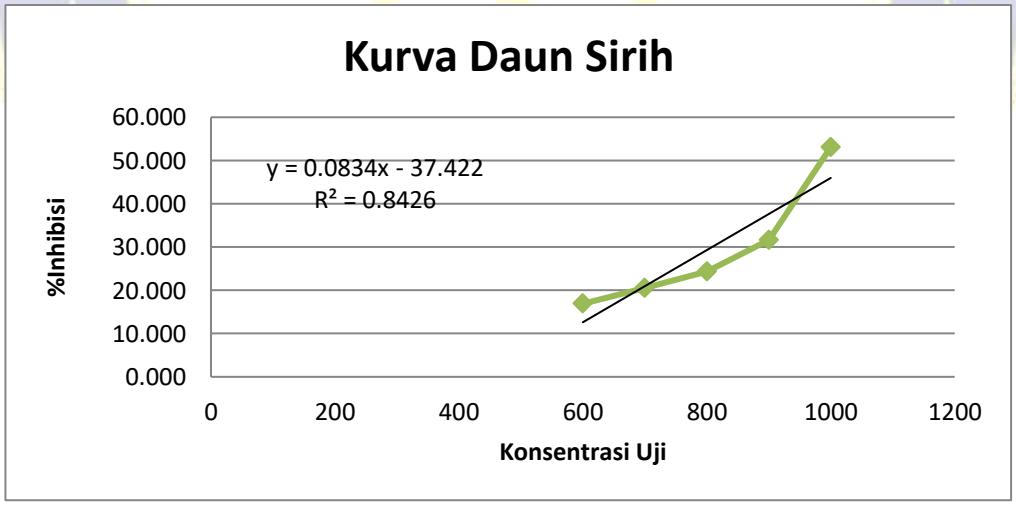


LAMPIRAN 11

AKTIVITAS ANTIOKSIDAN

DAUN SIRIH (*Piper betle L.*)

	Absorban				SD	% Inhibisi	IC 50 (ppm)
	Uji ke-1	Uji ke-2	Uji ke -3	Rata-rata			
Blanko	0,750	0.747	0.741	0.746			
Konsentrasi Uji							
600	0,618	0,626	0,616	0,620	0,005	16,890	1048
700	0,594	0,580	0,591	0,593	0,002	20,576	
800	0,578	0,593	0,522	0,564	0,037	24,352	
900	0,481	0,472	0,578	0,510	0,059	31,591	
1000	0,384	0,311	0,355	0.,350	0,037	53,083	



LAMPIRAN 12

HASIL UJI CEMAR MIKROBA DAUN SIRSAK

PT. BERKAH ALAM NUSANTARA

Kp. Cibuni, No. 99 RT. 02 RW. 05, Ds. Cibuni, Kec. Pangatikan, Garut - Jawa Barat
Telp. (0821 1730 5572) Email : berkahalamnusantara77@gmail.com

SERTIFIKAT ANALISA / CERTIFICATE OF ANALYSIS
Ekstrak Daun Sirsak (Annona muricata)
312/CoA/BAN/IX/2022

Serbuk Ekstrak

Batch No./Sample Code	: EDR1080622
Product Code	: EDR
Manufacturing Date	: 17 Juni 2022
Exp. Date	: 17 Juni 2024

Data umum/General Data

Bagian/Parts Used	: Daun
Genus/Genus	: Annona
Spesies/Species	: Annona muricata
Pelarut/Solvent	: Reverse Osmosis Water
Eksipien/Excipients	: Amilum/Amylum
Rasio	: 4 : 1

Pengujian Organoleptik

Warna	Bau	Rasa	Tekstur
Hijau	Aroma Khas	Hambar	Serbuk Halus

No.	Parameter Uji/Tests	Satuan/Units	Spesifikasi/ Specifications	Hasil Uji/Test Result	Metode/Methode
Fisika Kimia/Chemical-Physic					
1	Uluran Mesa / Mesh Size	Mesh	100	100	Standar Internal/ Intern Standard
2	Lisp Total / Loss On Dry	% (Percent)	Max. 06,00	5,33	Material Medika
Mikrobiologi / Microbiology					
1	Angka Lempeng Total/ Total Plate Count	Kol.gr^{-1}/Cfu	$\leq 1 \times 10^4$	Conform	MA.QC.002
2	Kapang Khamir/ Yeast & Mold	Kol.gr^{-1}/Cfu	$\leq 1 \times 10^3$	Conform	MA.QC.001
3	*Angka Enterobactersiaceae*	Kol.gr^{-1}/Cfu	$\leq 10^3$	Conform	MA.QC.010
4	*Escherichia coli*	Kol.gr^{-1}/Cfu	≤ 10	Conform	MA.QC.003
5	Clostridia	+/-	- (Negatif)	- (Negative)	MA.QC.009
6	*Pseudomonas aeruginosa*	+/-	- (Negatif)	- (Negative)	MA.QC.005
7	*Salmonella sp.*	+/-	- (Negatif)	- (Negative)	MA.QC.004
8	*Shigella sp.*	+/-	- (Negatif)	- (Negative)	MA.QC.006

Pengawasan Mutu/ Quality Control

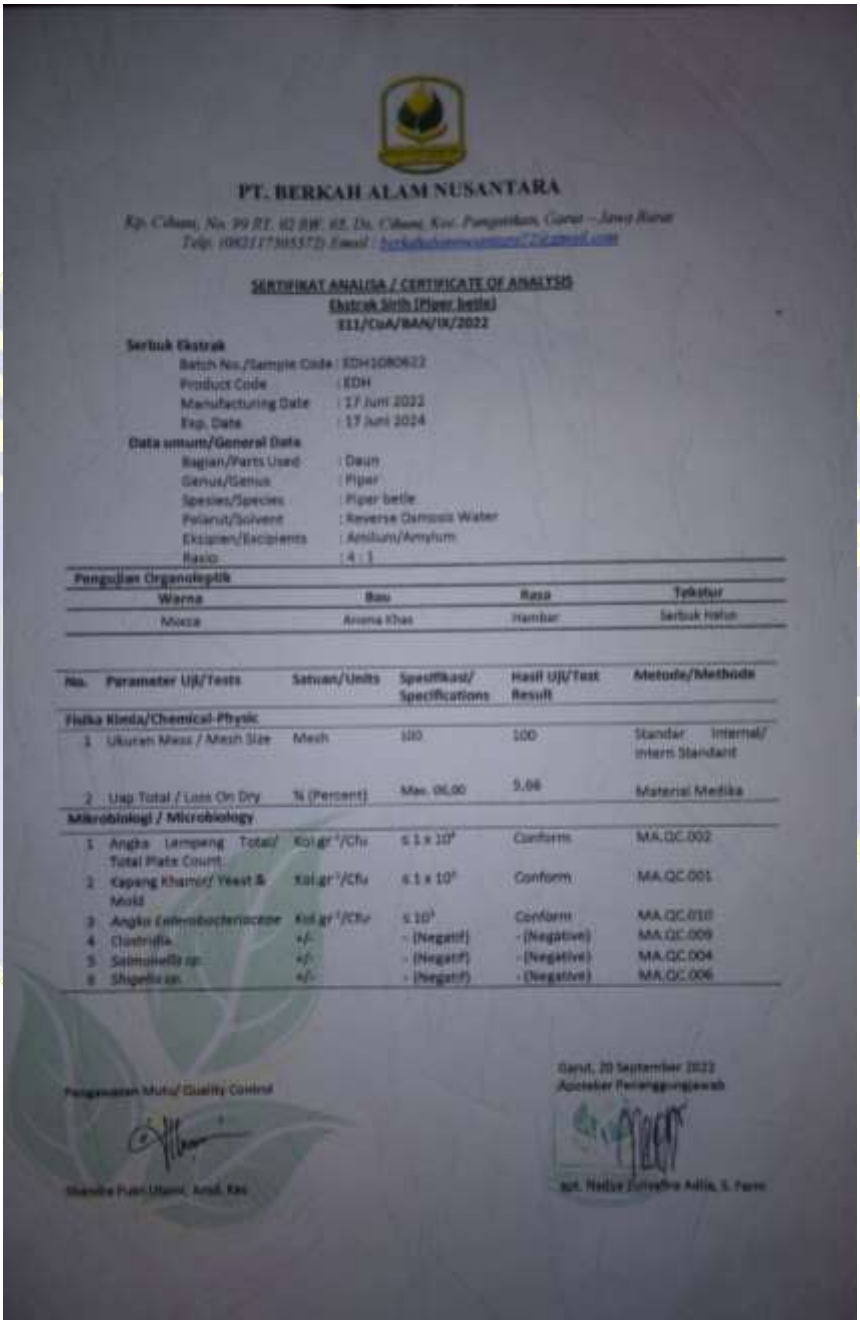
Shendra Putri Ubani, Amd. Far

Garut, 20 September 2022
Apoteker Penanggungjawab

apt. Nadia Zulaeha Adila, S. Farm

LAMPIRAN 13

HASIL UJI CEMAR MIKROBA DAUN SIRIH



PT. BERKAH ALAM NUSANTARA

Kp. Cibuni, No. 39 RT. 02 RW. 05, Ds. Cibuni, Kec. Pangatikan, Garut – Jawa Barat
Telp. (0821 1736 5572) Email : berkahalamnusantara77@gmail.com

SERTIFIKAT ANALISA / CERTIFICATE OF ANALYSIS
Ekstrak Sirih (Piper betle)
111/CoA/BAN/IX/2022

Serbuk Ekstrak

Batch No./Sample Code : EDH1080622
Product Code : EDH
Manufacturing Date : 17 Juni 2022
Exp. Date : 17 Juni 2024

Data umum/General Data

Bagian/Parts Used : Daun
Genus/Genus : Piper
Species/Species : Piper betle
Pelarut/Solvent : Reverse Osmosis Water
Eksipien/Excipients : Amilum/Amylum
Rasio : 4 : 1

Pengujian Organoleptik

Warna	Bau	Rasa	Tekstur
Mixxa	Aroma Khas	Hambar	Serbuk Halus

No.	Parameter Uji/Tests	Satuan/Units	Spesifikasi/ Specifications	Hasil Uji/Test Result	Metode/Methode
Fisika Kimia/Chemical-Physic					
1	Ukuran Mesh / Mesh Size	Mesh	100	100	Standar Internal/ Intern Standart
2	Uap Total / Loss On Dry	% (Percent)	Max. 06,00	5.08	Material Medika
Mikrobiologi / Microbiology					
1	Angka Lempeng Total/ Total Plate Count	Kol.gr^{-1}/Cfu	$\leq 1 \times 10^{4}$	Conform	MA.QC.002
2	Kapang Khamir/ Yeast & Mold	Kol.gr^{-1}/Cfu	$\leq 1 \times 10^{3}$	Conform	MA.QC.001
3	Angka Enterobacteriaceae	Kol.gr^{-1}/Cfu	$\leq 10^{3}$	Conform	MA.QC.010
4	Clostridia	+/-	- (Negatif)	- (Negative)	MA.QC.009
5	Salmonella sp.	+/-	- (Negatif)	- (Negative)	MA.QC.004
6	Shigella sp.	+/-	- (Negatif)	- (Negative)	MA.QC.006

Pengawasan Mutu/ Quality Control

Shandra Putri Utami, Amd. Kes

Garut, 20 September 2022
Apoteker Penanggungjawab

apt. Nadia Zulvadhia Adila, S. Farm

DAFTAR RIWAYAT HIDUP

1. IDENTITAS DIRI

Nama	: Putri Vanesa Oktavia
Tempat, Tanggal Lahir	: Bandung, 26 Oktober 1999
Jenis Kelamin	: Perempuan
Agama	: Islam
Kewarganegaraan	: Indonesia
Status	: Mahasiswa
Alamat	: Jln/Kp.Pagaden Rt 01 Rw 05 Desa Linggar, Kecamatan Rancaekek, Kabupaten Bandung, Provinsi Jawa Barat
Telepon	: 089515901739
Email	: xi.a.putrivanesa@gmail.com

2. RIWAYAT PENDIDIKAN

Jenjang Pendidikan	Nama Sekolah/Universitas	Tahun Masuk	Tahun Keluar
TK/RA	Al-Fajri	2005	2006
SD/MI	SDN Linggar 1	2006	2012
SMP/MTS	SMPN 1 Cicalengka	2012	2015
SMA/MA/SMK	SMK Bhakti Kencana Cileunyi	2015	2018
PERGURUAN TINGGI	Universitas Garut	2018	2022