

LAMPIRAN

Lampiran 1 Sertifikat Ekstrak

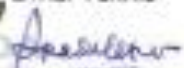


SERTIFIKAT HASIL UJI

Nomor : 2303330109b
Nama Sampel : Ekstrak Buah Bit Merah
Uji : Kualitatif Flavonoid, Senyawa Fenolik
Metode : Thin Layer Chromatography
Tanggal : 17 Maret 2023
Permintaan : Haifa Azhar
NIM : 191FF03075
Institusi : Fakultas Farmasi Universitas Bhakti Kencana

Hasil Uji

Parameter Uji	Hasil Uji	Metode
Flavonoid	Positif	TLC
Senyawa Fenolik	Positif	TLC

Divisi Teknis

Pradekatiwi, S.Si.

Lampiran 2 CoA BHT



W-288,MIDC,TTC Industrial Area,
Thane-Belapur Road,Rabale,
Tel: 022 276908637
Info@adventchembio.com
www.adventchembio.com

An ISO 9001:2015 & ISO 14001:2015 Certified Company

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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Lampiran 3 CoA Avocado oil



PRODUCT NAME: AVOCADO OIL, REFINED
LOT NUMBER: LOT0011072
PRODUCT INCI: PERSEA GRATISSIMA OIL
PRODUCT CODE: K0042
CAS NUMBER: 8024-32-6
EINECS NUMBER: 232-428-0
MANUFACTURING METHOD: EXPPELLER PRESSED, REFINED
MANUFACTURING DATE: 29/03/2021
BEST BEFORE DATE: 29/03/2023

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	CLEAR OILY LIQUID	-
ODOUR	ODOURLESS	-
COLOUR	LIGHT YELLOW	-
REFRACTIVE INDEX @ 20°C	1.460 – 1.475	1.470
FREE FATTY ACID (% AS OLEIC)	< 0.5	0.4
PEROXIDE VALUE (MEQ O ₂ /KG)	<10.0	0.5
SAPONIFICATION VALUE (MG KOH/G)	178.0 – 200.0	191.0

FATTY ACID PROFILE	ACID NAME	RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	2.0 - 25.0 %	8.7
C16:1	PALMITOLEIC	0.0 - 10.0 %	1.7
C18:0	STEARIC	MAX. 5.0 %	2.3
C18:1	OLEIC	55.0 - 75.0 %	55.0
C18:2	LINOLEIC	10.0 - 25.0 %	20.5
C18:3	LINOLENIC	0.5 - 3.0 %	2.1

more information

PT. DARJEELING AROMA ALAMI

secretary@darjeelingaroma.co.id

Lampiran 4 Formulasi dan Evaluasi Sediaan Lip balm



Penimbangan bahan



Formulasi *Lip Balm*



Sediaan *Lip balm*



Lip balm dipasarkan

Lampiran 5 Evaluasi Sediaan Lip Balm Suhu Ruang

Uji Homogenitas



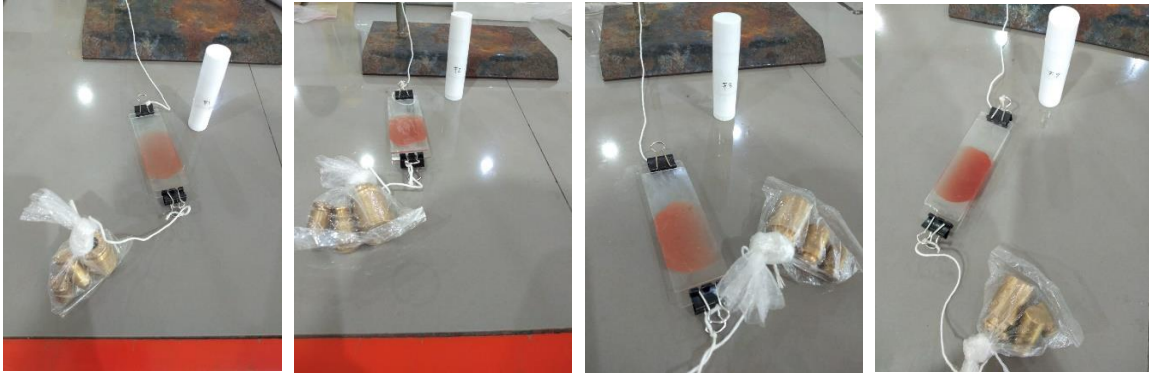
Uji pH



Uji Daya Sebar



Uji Daya Lekat



Uji Susut Pengeringan (LoD)



Uji kekerasan



Evaluasi Sediaan *Lip balm cycling test*



Uji Homogenitas



Uji Daya Sebar



Uji Daya Lekat



Uji pH



Gambar Visual Pengaruh Suhu



Perhitungan Degradasi Warna

$$\text{Degradasi (\%)} = \frac{A_0 - A_t}{A_0} \times 100\%$$

Keterangan :

A₀ = absorbansi sebelum dilakukan pengujian

A_t = absorbansi setelah dilakukan pengujian

Diketahui = A₀ (Kontrol 25°C) = 0,623

$$40^\circ\text{C} = \frac{0,623 - 0,612}{0,623} \times 100\% = 1,76\%$$

$$60^\circ\text{C} = \frac{0,623 - 0,582}{0,623} \times 100\% = 6,58\%$$

$$80^\circ\text{C} = \frac{0,623 - 0,491}{0,623} \times 100\% = 21,19\%$$

$$100^\circ\text{C} = \frac{0,623 - 0,298}{0,623} \times 100\% = 52,17\%$$

Lampiran 6 Data Statistik

Uji pH Suhu Ruang

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	Formula 1	.233	7	.200 [*]	.893	7	.291
	Formula 2	.242	7	.200 [*]	.869	7	.181
	Formula 3	.176	7	.200 [*]	.969	7	.890
	Formula 4	.191	7	.200 [*]	.972	7	.915

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH	Based on Mean	.533	3	24	.664
	Based on Median	.523	3	24	.670
	Based on Median and with adjusted df	.523	3	22.704	.671
	Based on trimmed mean	.528	3	24	.667

ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.774	3	.258	2.133	.122
Within Groups	2.903	24	.121		
Total	3.677	27			

Uji pH Cycling Test

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	Formula 1	.213	6	.200 [*]	.899	6	.370
	Formula 2	.272	6	.187	.854	6	.170
	Formula 3	.202	6	.200 [*]	.924	6	.538
	Formula 4	.240	6	.200 [*]	.886	6	.298

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH	Based on Mean	.153	3	20	.927
	Based on Median	.110	3	20	.953
	Based on Median and with adjusted df	.110	3	16.278	.953
	Based on trimmed mean	.152	3	20	.927

ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.490	3	.163	1.163	.348
Within Groups	2.809	20	.140		
Total	3.299	23			

Uji Daya Lekat Suhu Ruang

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Daya Lekat	Formula 1	.237	7	.200 [*]	.853	7	.132
	Formula 2	.242	7	.200 [*]	.865	7	.167
	Formula 3	.231	7	.200 [*]	.879	7	.223
	Formula 4	.239	7	.200 [*]	.883	7	.241

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya Lekat	Based on Mean	.410	3	24	.747
	Based on Median	.318	3	24	.812
	Based on Median and with adjusted df	.318	3	23.867	.812
	Based on trimmed mean	.418	3	24	.742

ANOVA

Daya Lekat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	753.511	3	251.170	.197	.897
Within Groups	30575.570	24	1273.982		
Total	31329.082	27			

Uji Daya Lekat cycling test

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Daya lekat	1	.231	6	.200 [*]	.910	6	.434
	2	.220	6	.200 [*]	.859	6	.187
	3	.298	6	.103	.800	6	.059
	4	.283	6	.145	.826	6	.099

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya lekat	Based on Mean	8.700	3	20	.001
	Based on Median	5.997	3	20	.004
	Based on Median and with adjusted df	5.997	3	14.708	.007
	Based on trimmed mean	8.590	3	20	.001

ANOVA

Daya lekat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	100.296	3	33.432	1.916	.159
Within Groups	348.952	20	17.448		
Total	449.248	23			

Uji Daya Sebar Suhu Ruang

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Daya Sebar	Formula 1	.173	7	.200 [*]	.956	7	.782
	Formula 2	.162	7	.200 [*]	.947	7	.703
	Formula 3	.136	7	.200 [*]	.982	7	.967
	Formula 4	.214	7	.200 [*]	.913	7	.414

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya Sebar	Based on Mean	2.471	3	24	.086
	Based on Median	2.175	3	24	.117
	Based on Median and with adjusted df	2.175	3	18.423	.125
	Based on trimmed mean	2.415	3	24	.091

ANOVA

Daya Sebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.022	3	.007	2.547	.080
Within Groups	.068	24	.003		
Total	.090	27			

Uji Daya Sebar Cycling Test

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Daya Sebar	Formula 1	.394	6	.004	.741	6	.016
	Formula 2	.363	6	.013	.730	6	.013
	Formula 3	.282	6	.147	.835	6	.119
	Formula 4	.248	10	.081	.765	10	.005

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya Sebar	Based on Mean	1.827	3	24	.169
	Based on Median	.866	3	24	.472
	Based on Median and with adjusted df	.866	3	13.524	.483
	Based on trimmed mean	1.422	3	24	.261

ANOVA

Daya Sebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.043	3	.014	.485	.696
Within Groups	.711	24	.030		
Total	.754	27			

Uji LoD

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
Formula		Statistic	df	Sig.	Statistic	df	Sig.
Uji LoD	Formula 1	.171	7	.200 [*]	.960	7	.820
	Formula 2	.251	7	.200 [*]	.937	7	.609
	Formula 3	.161	7	.200 [*]	.947	7	.704
	Formula 4	.244	7	.200 [*]	.913	7	.417

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Uji LoD	Based on Mean	3.282	3	24	.038
	Based on Median	2.009	3	24	.140
	Based on Median and with adjusted df	2.009	3	15.846	.154
	Based on trimmed mean	3.114	3	24	.045

ANOVA

Uji LoD

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.355	3	1.118	6.273	.003
Within Groups	4.279	24	.178		
Total	7.633	27			

Multiple Comparisons

Dependent Variable: Uji LoD

Bonferroni

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-.70857 [*]	.22569	.027	-1.3574	-.0597
	Formula 3	-.71571 [*]	.22569	.025	-1.3646	-.0668
	Formula 4	-.90857 [*]	.22569	.003	-1.5574	-.2597
Formula 2	Formula 1	.70857 [*]	.22569	.027	.0597	1.3574
	Formula 3	-.00714	.22569	1.000	-.6560	.6417
	Formula 4	-.20000	.22569	1.000	-.8489	.4489
Formula 3	Formula 1	.71571 [*]	.22569	.025	.0668	1.3646
	Formula 2	.00714	.22569	1.000	-.6417	.6560
	Formula 4	-.19286	.22569	1.000	-.8417	.4560
Formula 4	Formula 1	.90857 [*]	.22569	.003	.2597	1.5574
	Formula 2	.20000	.22569	1.000	-.4489	.8489
	Formula 3	.19286	.22569	1.000	-.4560	.8417

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

Uji Kekerasan

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji Kekerasan	Formula 1	.241	7	.200 [*]	.925	7	.512
	Formula 2	.265	7	.147	.922	7	.483
	Formula 3	.265	7	.148	.920	7	.468
	Formula 4	.227	7	.200 [*]	.931	7	.558

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

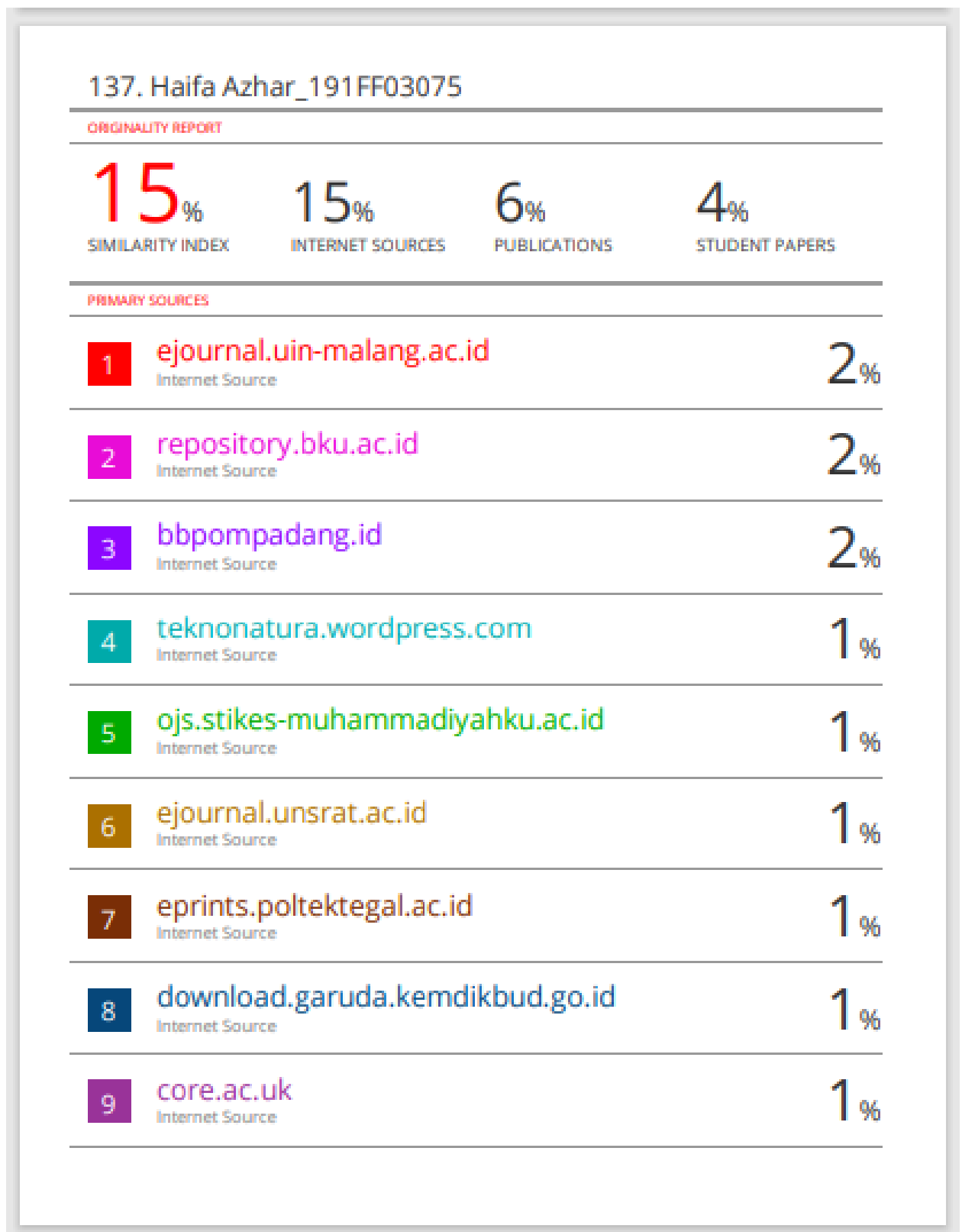
		Levene Statistic	df1	df2	Sig.
Uji Kekerasan	Based on Mean	.010	3	24	.999
	Based on Median	.005	3	24	1.000
	Based on Median and with adjusted df	.005	3	23.889	1.000
	Based on trimmed mean	.009	3	24	.999

ANOVA

Uji Kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	832.143	3	277.381	.294	.829
Within Groups	22616.571	24	942.357		
Total	23448.714	27			

Lampiran 7 Cek Plagiarisme



Lampiran 8 Kartu Bimbingan

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DAFTAR RIWAYAT HIDUP



Nama	: Haifa Azhar
Tempat/Tanggal Lahir	: Kuningan, 05 Desember 2001
Jenis Kelamin	: Perempuan
Agama	: Islam
Alamat	: Desa Kalapagunung Rt 09/02 Dusun Manis Kec. Kramatmulya Kab. Kuningan Jawa Barat
Telepon	: 089660413831
Email	: haifaazhr5@gmail.com

PENDIDIKAN

TK : TK Pembina
SD : SDN 1 Kalapagunung
SMP : SMPN 1 Jalaksana
SMK : SMK Bhakti Indonesia
S1 : Universitas Bhakti Kencana