

Lampiran 1: Daftar Riwayat Hidup



Nama : Riza Adelia Fitri
Tempat, Tanggal lahir : Pringsewu, 28 Desember 2000
Jenis Kelamin : Perempuan
Agama : Islam
Kewarganegaraan : Indonesia
Alamat : KOMP. TWI Blok FWA 41 No. 17
Telpon : 082111948590
Email : 191ff03016@bku.ac.id

PENDIDIKAN

TK : Santosa
SD : SDU Uswatun Hasanah
SDN Kubang Sepat 1
SMP : SMP PLUS ASSA'ADAH
SMA : SMA PLUS ASSA'ADAH
S1 : Universitas Bhakti Kencana Bandung

Lampiran 1 Sertifikat Bahan Asam Askorbat



Certificate of Analysis

1.00468.0000 L(+)-Ascorbic Acid for analysis EMSURE® ACS, Reag. Ph Eur
 Batch K54197668

	Spec. Values		Batch Values	
Assay (iodometric)	99.0 - 100.5	%	99.7	%
Identity (IR-spectrum)	conforms		conforms	
Appearance	white or almost white, crystalline powder		white or almost white, crystalline powder	
Appearance of solution (50 g/l CO ₂ -free water)	clear (≤ 3 NTU) and not so intense in colour than reference solution BY ₁		clear (≤ 3 NTU) and not so intense in colour than reference solution BY ₁	
pH (50 g/l CO ₂ -free water)	2.1 - 2.6		2.4	
Spec. rotation [α] _D (100 g/l, water)	+20.5 - +21.5	*	+20.8	*
Chloride (Cl)	≤ 50	ppm	≤ 50	ppm
Sulfate (SO ₄)	≤ 20	ppm	≤ 20	ppm
Cu (Copper)	≤ 5	ppm	≤ 5	ppm
Fe (Iron)	≤ 2	ppm	≤ 2	ppm
Heavy metals (ACS)	≤ 10	ppm	≤ 10	ppm
Oxalic acid	≤ 0.2	%	≤ 0.2	%
Related substances (HPLC) (Impurity C)	≤ 0.15	%	0.01	%
Related substances (HPLC) (Impurity D)	≤ 0.15	%	< 0.05	%
Related substances (HPLC) (unspecified impurities singly)	≤ 0.10	%	0.06	%
Related substances (HPLC) (sum of impurities (except impurity C and D))	≤ 0.2	%	< 0.1	%
Sulfated ash (600 °C)	≤ 0.05	%	≤ 0.05	%
Loss on Drying (105 °C)	≤ 0.1	%	< 0.1	%

Date of release (DD.MM.YYYY) 17.03.2022
 Minimum shelf life (DD.MM.YYYY) 31.03.2024

Dr. Sebastian Lips
 Responsible laboratory manager quality control

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Lampiran 2 Sertifikat Bahan Natrium Tiosulfat



Certificate of Analysis

1.06516.1000 Sodium thiosulfate pentahydrate for analysis EMSURE® ACS, ISO,
Reag. Ph Eur
Batch AM1763713

	Spec. Values		Batch Values	
Assay (Iodometric)	99.5 - 101.0	%	100.2	%
Identity	passes test		passes test	
Appearance of solution	passes test		passes test	
Insoluble matter	≤ 0.005	%	≤ 0.005	%
pH-value (5 %; water, 25 °C)	6.0 - 7.5		6.7	
pH-value (10 %; water)	6.0 - 7.5		6.8	
Chloride (Cl)	≤ 0.008	%	≤ 0.008	%
Sulfate and sulphite (as SO ₄)	≤ 0.1	%	≤ 0.1	%
Sulfide (S)	passes test		passes test	
Heavy metals (as Pb)	≤ 0.001	%	≤ 0.001	%
Total nitrogen (N)	≤ 0.002	%	≤ 0.002	%
Ca (Calcium)	≤ 0.002	%	≤ 0.002	%
Cu (Copper)	≤ 0.0005	%	≤ 0.0005	%
Fe (Iron)	≤ 0.0005	%	≤ 0.0005	%
K (Potassium)	≤ 0.001	%	≤ 0.001	%
Mg (Magnesium)	≤ 0.001	%	≤ 0.001	%
Pb (Lead)	≤ 0.0005	%	≤ 0.0005	%

Corresponds to ACS, ISO, Reag. Ph Eur

Date of release (DD.MM.YYYY) 28.12.2022
Minimum shelf life (DD.MM.YYYY) 31.08.2025

Claudia Wiegand

Responsible laboratory manager quality control

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Lampiran 3: Gambar sampel, proses preparasi sampel dan Uji presisi



Gambar 1. Sampel Keripik Buah Nangka dan Nanas



Gambar 2. Preparasi Sampel



Gambar 3. Uji Presisi

Lampiran 5. Data Kadar Vitamin C dari keripik buah

A. Keripik Buah Nangka

Sampel	Volume Titration (mL)	Kadar Vitamin C (mg/g)
Nangka	0,8	1,3385
	0,7	1,3385
	0,8	1,3385

B. Keripik Buah Nanas

Sampel	Volume Titration (mL)	Kadar Vitamin C (mg/g)
Nanas	2,1	3,628
	2,1	3,628
	2	3,628

Lampiran 6. Data Hasil Batas Deteksi dan Batas Kuantitasi

Volume I2 (mL)	mmol I2	mmol C6H8O6	Massa C6H8O6 (mg)
0.2	0.002	0.002	0.35224
0.4	0.004	0.004	0.70448
0.2	0.002	0.002	0.35224
0.3	0.003	0.003	0.52836
0.2	0.002	0.002	0.35224
0.3	0.003	0.003	0.52836
0.3	0.003	0.003	0.52836
0.3	0.003	0.003	0.52836
0.2	0.002	0.002	0.35224
0.3	0.003	0.003	0.52836
0.2	0.002	0.002	0.35224
0.3	0.003	0.003	0.52836
0.2	0.002	0.002	0.35224
0.2	0.002	0.002	0.35224
0.3	0.003	0.003	0.52836
0.3	0.003	0.003	0.52836
0.3	0.003	0.003	0.52836
0.2	0.002	0.002	0.35224
0.3	0.003	0.003	0.52836
0.3	0.003	0.003	0.52836
Rata-rata			0.466718
SD			0.103407616
RSD			22.15633768
BD			0.776940848 mg
BK			1.500794161 mg

Lampiran 7 Data Hasil Uji Akurasi

Vitamin C (mg)	mg Vitamin C Hasil Analisis (adisi)	% recovery
17,6	32.5822	95.0647
17,6	33.4628	100.0681
17,6	31.7016	95.0647
22	39.627	96.0654
22	39.627	100.0681
22	40.5076	100.0681
26,4	42.2688	93.3969
26,4	44.03	100.0681
26,4	42.2688	93.3969
Rata-rata		97.0290
SD		0.7783
RSD		0.8021

Lampiran 8 Data Hasil Uji Presisi Intraday dan interday

1. Uji presisi *Intraday*

Replikasi	mg Vitamin C		
	Hari ke-1	Hari ke-2	Hari ke-3
1	39.627	40.5076	39.627
2	39.627	40.5076	40.5076
3	40.5076	39.627	39.627
4	39.627	40.5076	40.5076
5	39.627	39.627	39.627
6	39.627	39.627	39.627
Rata-rata	39.7737	40.0673	39.9205
SD	0.3595	0.4823	0.4547
% KV	0.9038	1.2037	1.1391

2. Uji Presisi *Interday*

Pengujian ke-	mg Vitamin C
1	39.7737
2	40.0673
3	39.9205
Rata-rata	39.9205
SD	0.0644
% KV	0.1614

Lampiran 9. Hasil Cek Plagiarisme

ANALISIS KADAR VITAMIN C PADA KERIPIK BUAH NANGKA (Artocarpus heterophyllus) DAN NANAS (Ananas Comosus) DENGAN METODE TITRASI IODIMETRI

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Lampiran 10: Kartu Bimbingan Utama



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KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Utama	: Emma Emmawati, M.Si
Nama Mahasiswa	: Riza Adelia Fitri
NPM	: 1911F03016
Bidang Ilmu	: AFKM

[illegible]

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.

Lampiran 11: Kartu Bimbingan serta



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No. Dok. 02.64.00/FRM-03/AKD-SPMI



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Serta	: Anne Yuliantini, M.Si
Nama Mahasiswa	: Riza Adelia Fitri
NPM	: 1911F03016
Bidang Ilmu	: AFKM

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Catatan : Kartu ini harus dibawa setiap kali meeting dan harus diisi oleh dosen pembimbing