

LAMPIRAN

Lampiran 1. Hasil Plagiarisme

Afifah Rusyda Sani_201FF03110_Skripsi.pdf			
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Lampiran 2. Kartu Bimbingan



Fakultas Farmasi
Universitas
Bhakti Kencana

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



KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Utama	: Reza Pratama, M. Farm
Nama Mahasiswa	: Afifah Rusyda Sani
NPM	: 201FF03110
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Kamis, 15 - 02 - 24	14.30	R-prodi	Diskusi formula	Pul
2.	Senin, 19 - 02 - 24	14.30	R-prodi	Diskusi evaluasi dan formulasi	Pul
3.	Kamis, 29 - 02 - 24	14.15	R-prodi	Diskusi pembuatan granul	Pul
4.	Rabu, 6 - 03 - 24	10.30	R-prodi	Diskusi review artikel dan evaluasi	Pul
5.	Selasa, 2 - 04 - 24	11.07	R-prodi	Report hasil penelitian tanpa ekstrak	Pul
6.	Senin, 29 - 04 - 24	13.00	kampus	Laporan kemajuan I	Pul
7.	Jum'at, 13 - 05 - 24	13.00	kampus	Diskusi	Pul
8.	Seksa, 21 - 05 - 24	09.00	R-prodi	Laporan hasil optimasi	Pul
9.	Seksa, 4 - 6 - 24	11.00	R-Dosen	Diskusi formula & antiseptik	Pul
10.	Seksa, 11 - 6 - 24	11.30	R-Dosen	diskusi formula I	Pul
11.	Senin, 24 - 6 - 24	15.30	R-Dosen	progres formulasi	Pul
12.	Kamis, 27 - 6 - 24	09.00	R-DPRM	Konfirmasi uji Antiksidan	Pul
13.	Rabu, 10 - 7 - 24	09.00	R-DPRM	Laporan hasil uji antioksidan	Pul
14.	Senin, 15 - 7 - 24	11.00	R-DPRM	Revisi draft laporan penelitian	Pul
15.	Kamis, 18 - 7 - 24	13.00	R-DPRM	Progres ^{KLT} draft dan draft TA	Pul
16.	Jum'at, 19 - 7 - 24	13.30	R-DPRM	Konfirmasi Kolokium.	Pul

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

• bku.ac.id • contact@bku.ac.id



Fakultas Farmasi
Universitas
Bhakti Kencana

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

**KARTU BIMBINGAN TUGAS AKHIR II**

Pembimbing Serta	: Dr. apt. Dadih Supriadi, M. Si
Nama Mahasiswa	: Aiffah Rusyda Sani
NPM	: 201FF03110
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi

[illegible]

Lampiran 3.Optimasi Formula Design Expert Versi 13

	Std	Run	Component 1 A:Asam Sitrat	Component 2 B:Asam Tartrat	Response 1 Waktu larut menit	Response 2 Tinggi buih cm
	7	1	0	1		
	3	2	0.5	0.5		
	6	3	1	0		
	4	4	0.75	0.25		
	1	5	1	0		
	8	6	0.5	0.5		
	2	7	0	1		
	5	8	0.25	0.75		

Lampiran 4. CoA Ekstrak Kulit Melinjo

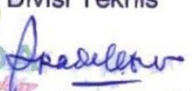
**SERTIFIKAT HASIL UJI**

Nomor : 240333285b
 Nama Sampel : Ekstrak Kulit Melinjo Merah
 Uji : Total Flavonoid
 Metode : Spectrophotometri, Gravimetri
 Tanggal disusun : 27 Februari 2024
 Permintaan : Afifah Rusyda Sani
 NIM : 201FF03110
 Institusi : Fakultas Farmasi Universitas Bhakti kencana

Hasil Uji

Parameter Uji	Hasil Uji	Metode
Total Flavonoid	4,08 % b/b	Spectrophotometry

Parameter Uji	Hasil Uji	Satuan	Metode
Kadar Air	6,82	% v/b	Gravimetri
Kadar Abu Total	2,83	% b/b	Gravimetri
Kadar Abu Tidak Larut Asam	0,19	% b/b	Gravimetri

Divisi Teknis

 Pradekatiwi, S.Si.

Lampiran 5. CoA Laktosa


DFE
pharma

DFE Pharma GmbH & Co. KG / PO Box 20 21 20 / D-47568 Goch

Page nr. 1/2

0811342880-900001-25221010-133649-2006-3420_FONT_01-000001

Certificate of Analysis

Customer number	: 160560	Lot/ Batchnumber	: 23174701
Delivery number	: 811342880	Date of production	: 03.06.2022
Delivery Date	: 24.10.2022	Expiry date	: 01.06.2025
Material number	: 0743826	Order number	: 15452851
Material description	: HMS Impalpable (NZ)	Your order number	: PH220517
	Milled lactose monohydrate		
	USP-NF, Ph.Eur., JP		
	Bag, PE liner, 25 kg net		

Analysis				
Chemical & Physical				
Characteristic	Method of analysis	Unit	Specification	Results
Infrared absorption spectrum / Id A	USP-NF; Ph.Eur.; JP		Conforms to reference	Pass
Water / Id D Ph.Eur.	USP-NF; Ph.Eur.; JP	%(m)	4.5-5.5	5.1
Appearance of solution	Ph.Eur.		Not more intensely coloured than ref BY7	Pass
Lactose colour of sol.	USP-NF; JP		Nearly colourless	Pass
Lactose clarity of sol.	USP-NF; Ph.Eur.; JP		Clear	Pass
UV-Abs. 1% sol. 210-220 nm	USP-NF; Ph.Eur.; JP		0.00-0.25	0.02
UV-Abs. 1% sol. 270-300 nm	USP-NF; Ph.Eur.; JP		0.00-0.07	0.00
UV-Abs. 10% sol. 400 nm	USP-NF; Ph.Eur.; JP		0.00-0.04	0.00
Acidity (0.1N NaOH/6g)	USP-NF; Ph.Eur.; JP	ml	0.0-0.4	0.2
Specific optical rotation (anhydrous bas	USP-NF; Ph.Eur.; JP	Degree	54.4-55.9	55.1
Heavy Metals	USP-NF; Ph.Eur.; JP		max 5 ppm	Pass
Loss on Drying (2 hrs, 80°C)	USP-NF; JP	%(m)	0.0-0.5	0.1
Residue on ignition / Sulfated ash	USP-NF; Ph.Eur.; JP	%(m)	0.0-0.1	<0.1
Microbiological				
Characteristic	Method of analysis	Unit	Specification	Results
Total Aerobic Micro Count	Pharmacopela Harmonized Methods	cfu/g	0-100	<100
Total Yeast & Mould Count	Pharmacopela Harmonized Methods	cfu/g	0-10	<10
Escherichia coli (10 g)	Pharmacopela Harmonized Methods		Negative	Negative
Salmonella (750g)	equal to ISO 6579		Negative	Negative
OTHERS				
Characteristic	Method of analysis	Unit	Specification	Results
Particle size <75 µm	Internal, ATM sonic sifter	%(m)	78-86	81
Particle size <180 µm	Internal, ATM sonic sifter	%(m)	>=98	99

Manufacturer: DFE Pharma GmbH & Co. KG, Goch, Germany (formerly named "DMV-Fonterra Excipients GmbH & Co. KG")

Lampiran 6. CoA Natrium Bikarbonat

ORIGINAL

DATE: NOV 22, 2022

CONSIGNEE TO WHOM IT MAY CONCERN

BENEFICIARY: INNER MONGOLIA IHLUCHEM INDUSTRIAL CO., LTD.

3RD FLOOR NO.20 BUILDING YITAI PRINCE MANTION, WANTONG ROAD, RUYI DIST. HONHOT CHINA

COMMODITY: SODIUM BICARBONATE 99%MIN, "MALAN BRAND"

QUANTITY & WEIGHT (PACKAGE NUMBERS): 8640 BAGS / 216.000 KGS

DATE OF MANUFACTURE: 20221113

DATE OF EXPIRY: 20241113

LOT NO.: 20221113

THIS IS TO CERTIFY THAT WE, THE BENEFICIARY, HAVE INSPECTED THE QUALITY OF THE ABOVE MENTIONED GOODS AND FOUND THE RESULT OF INSPECTION AS FOLLOWS:

ITEM	SPECIFICATION	RESULT
NAHCO ₃	99% MIN	99.85%
ARSENIC	0.0001% MAX.	0.00005%
HEAVY METALS (PB)	0.0005% MAX.	0.00012%
LOSS ON DRYING	0.20% MAX.	0.03%
PH VALUE	8.6 MAX.	8.1
NH ₄		None
Microbiology		Not detected

Lampiran 7. CoA Asam Sitrat



山东英轩实业股份有限公司
SHANDONG ENSIGN INDUSTRY CO., LTD.

Certificate of Analysis 检验报告单

Report No 报告编号: YX1TCR-20221105008-01

Report Date 报告日期: 2022-11-05

Product: Citric Acid Monohydrate 产品: 一水柠檬酸		Batch No. 批号 6MT2210013	Quantity 数量: 22.75MT	Production Date 生产日期: 2022-10-25
Molecular Formula 分子式: $C_6H_8O_7 \cdot H_2O$		CAS No.: 5949-29-1		Shelf Life 有效期: 36months
Item 项目	Unit 单位	Quality Standards 质量标准		Analysis Results 分析结果
Characters 感官	-	White or almost white, crystalline powder, colourless crystals or granules. Odorless, has a strongly acid taste. Very soluble in water, freely soluble in ethanol. 无色或白色结晶状颗粒或粉末; 无臭, 味酸; 易溶于水, 溶于乙醇; 微溶于乙醚。		Pass 符合
Identification 鉴别试验	-	Pass Test 符合试验		Pass 符合
Appearance of solution 溶液外观	-	Pass Test 符合试验		Pass 符合
Assay 含量	%	99.5-100.5		100.0
Water 水分	%	7.5-8.8		8.62
Readily Carbonisable Substances 易炭化物	-	Pass Test 符合试验		Pass 符合
Sulphated Ash (Residue on Ignition) 硫酸灰分	%	≤ 0.05		0.02
Sulfate 硫酸盐	mg/kg	≤ 50		< 50
Oxalate 草酸盐	mg/kg	≤ 50		< 50
Chloride 氯化物	mg/kg	≤ 5		< 5
Lead 铅	mg/kg	≤ 0.1		< 0.1
Arsenic 砷	mg/kg	≤ 0.1		< 0.1
Mercury 汞	mg/kg	≤ 0.1		< 0.1
Aluminium 铝	mg/kg	≤ 0.2		< 0.2
Heavy Metals 重金属	mg/kg	≤ 5		< 5
Bacterial endotoxins 细菌内毒素	IU/mg	< 0.5		< 0.5

结论: The product is in conformity with BP/USP/FCC/E330/ENSGN. 产品符合BP/USP/FCC/E330/ENSGN要求。

Approved by: 曹建鹏

Reviewed by: 曹建鹏

Prepared by: 曹金艳

Authorized signatory



Analysis date: 2022-10-27

Lampiran 8. CoA PVP K30

COA Code: JHNHPK30PG(USP41)0002

 **JH Nanhang Life Sciences Co., Ltd.**
Certificate of Analysis

Product Name	Povidone K30	Batch No.	PK30-220428F22	Date of Mfg	20220428
Quantity	4900KG	Packaging	25KG/ Fibre Drum	Expiry Date	20260427
Source	PVP Workshop	Reference	USP41		

No.	Items	Specification	Test Results
1.	Appearance	White or yellowish-white, hygroscopic powder	Complies
2.	Solubility	Freely soluble in water, ethanol 96%, methanol, very slightly soluble in acetone	Complies
3.	Identifications A, B, C, D, E	Positive	Complies
4.	Appearance of solution	Clear and NMT B _s , BY _s , or R _s	Complies
5.	pH	3.0-5.0	3.5
6.	K-value	27.0-32.4	29.7
7.	Aldehydes, ppm	≤ 500	21.6
8.	Peroxides, ppm	≤ 400	207
9.	Formic acid, %	≤ 0.5	0.3
10.	Hydrazine, ppm	≤ 1	<1
11.	Impurity A(1-vinylpyrrolidin-2-one), ppm	≤ 10	0.090
12.	Impurity B (2-pyrrolidone), %	≤ 3.0	1.1
13.	Heavy metals, ppm	≤ 10	<10
14.	Lead, ppm	≤ 10	<10
15.	Water, %	≤ 5.0	2.5
16.	Sulphated ash, %	≤ 0.1	0.08
17.	Nitrogen content, %	11.5 - 12.8	11.9
18.	* Total Aerobic Plate count, CFU/g	≤ 100	<10
19.	* Total Mold/Yeast count, CFU/g	≤ 100	<10
20.	* E.coli, CFU/g	Not detected	Complies
21.	* Staphylococcus Aureus, CFU /g	Not detected	Complies
22.	* Pseudomonas Aeruginosa, CFU /g	Not detected	Complies
23.	* Salmonella, CFU /g	Not detected	Complies

Note: The above tests with * are performed randomly.

Conclusion: Material meets the requirement for Povidone in USP41.

Completed by: Yang zhimin	Signature: 	Date: 19/5/2022
QC Manager: Tong Mengxin	Signature: 	Date: 19/5/2022
Released by QA Manager: Zhang Ming	Signature: 	Date: 19/5/2022

Factory address: No.16 Luyin Road, Hi-Tech Industrial Zone, Quzhou, Zhejiang, 324004 P. R. China

Website: www.jh-nh.com E-mail: info@jh-nh.com Contact person: Zhang Ming Tel: + 86-0570-3883574

Lampiran 9. CoA Asam Tartrat

CERTIFICATE OF ANALYSIS

MARKS & NOS.

INVOICE NO.:2023NCRH3028
DATE:MAR 10, 2023

N/M

DL-TARTARIC ACID

BATCH NUMBER

AB2303019

DESCRIPTION

WHITE CRYSTALLINE POWDER

CONTENT

99.87%

SULPHATE

PASSED

HEAVY METALS

< 0.001%

ARSENIC

< 0.0003%

LOSS ON DRYING

0.35%

RESIDUE ON IGNITION

0.038%

QUANTITY

21000KGS

CONCLUSION

ACCORDING TO FOOD GRADE(ANHYDROUS) STANDARD

PRODUCTION DATE

MAR 09, 2023

EXPIRY DATE

MAR 09, 2025

Lampiran 10.CoA Xanthan Gum

Deosen Biochemical(Ordos) Ltd.

Add: Sanchangliang Industrial Park, Dalate , Ordos, Inner Mongolia , P.R. China

Tel: 0086 533 7220837/ 7220838 Fax: 0086 533 7216024

E-mail: sales@deosen.com

**Certificate Of Analysis**

Product: Gum Xanthan Food Grade 200mesh

Brand name: ZIBOXAN® F200

Item	Specification	Results			
		34230025	37230059	37230031	34230063
Batch no.		2250	3750	4500	4500
Quantity(kg)		JAN.08.2023	JAN.14.2023	JAN.07.2023	JAN.19.2023
Manuf. date		JAN.07.2025	JAN.13.2025	JAN.06.2025	JAN.18.2025
Expiry date		1430cps	1500cps	1420cps	1550cps
Viscosity (1% solution in 1% KCL)	1200 –1600cps				
PH 1% solution	6.0 –8.0	6.74	7.2	7.52	6.92
Loss on Drying	max 15%	9.04%	8.58%	7.97%	8.27%
Ash	max 13%	6.16%	6.25%	6.27%	6.17%
Assay	91.0% –117.0%	99.7%	100.3%	99.5%	99.8%
Particle size	100% through 80 mesh (180micro)	100%	100%	100%	100%
	min 92% through 200mesh (75micro)	93.0%	92.4%	93.5%	92.0%
VI/IV2	1.02 –1.45	1.04	1.04	1.07	1.02
Pyruvic acid	min 1.5%	3.6%	3.5%	4.2%	4.6%
Nitrogen	max 1.5%	0.74%	0.74%	0.74%	0.74%
Heavy metal	max 20ppm	conform	conform	conform	conform
Arsenic	max 2ppm	conform	conform	conform	conform
Lead	max 2ppm	conform	conform	conform	conform
Mercury/Cadmium	max 1ppm	conform	conform	conform	conform
Ethanol and Isopropyl Alcohol	max 500 ppm	269	349	185	262
Total plate count	not more than 2000cfu/g	150	50	430	330
Yeast/mould	not more than 100cfu/g	conform	conform	conform	conform
E .coli	absent /25g	conform	conform	conform	conform
Salmonella	absent /25g	conform	conform	conform	conform
Raw material	maize starch, soy protein	conform	conform	conform	conform
GMO status	GMO Free	conform	conform	conform	conform

Lampiran 11. Dokumentasi Granul *Effervescent*

1. Granul *Effervescent* Tanpa Bahan Aktif



F1



F2



F3



F4



F5

2. Granul *Effervescent* Ekstrak Kulit Melinjo



F1



F2



F3

Lampiran 12. Dokumentasi Evaluasi Granul *Effervescent*

1. Uji LoD



F1



F2



F3

2. Uji Laju Alir



F1



F2



F3

3. Uji Sudut Istirahat



F1



F2



F3

4. Uji Indeks Kompresibilitas



F1



F2



F3

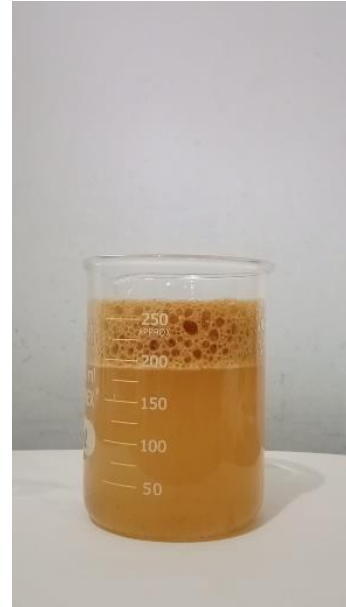
5. Uji Waktu Larut



F1



F2



F3

6. Uji Tinggi Buih



F1



F2



F3

7. Uji pH



F1



F2



F3

8. Uji Volume Sedimentasi



F1



F2



F3

Lampiran 13. Hasil Uji Aktivitas Antioksidan

Konsentrasi ug/mL	Abs. Kontrol	Abs. Sampel			% Inhibisi			IC50			Rata- rata IC50	SD
		1	2	3	1	2	3	1	2	3		
Pembanding Vitamin C												
1	0,929	0,550	0,520	0,518	40,731	44,019	44,205	5,152	5,198	5,033	5,128	0,085
2		0,506	0,505	0,503	45,514	45,671	45,833					
3		0,492	0,491	0,489	46,985	47,159	47,340					
4		0,479	0,477	0,473	48,448	48,638	49,016					
5		0,469	0,467	0,465	49,499	49,729	49,914					
6		0,457	0,456	0,455	50,786	50,858	51,043					
Ekstrak Kulit Melinjo												
10	0,929	0,496	0,495	0,494	46,637	46,670	46,764	27,550	27,187	27,023	27,253	0,270
20		0,485	0,484	0,484	47,818	47,843	47,867					
30		0,465	0,465	0,465	49,893	49,941	49,964					
40		0,457	0,452	0,452	50,843	51,304	51,310					
50		0,390	0,390	0,390	57,984	57,985	58,000					
60		0,387	0,387	0,387	58,290	58,300	58,352					
Granul Effervescent												
10	0,929	0,545	0,542	0,547	41,313	41,636	41,097	37,542	35,446	33,971	35,653	1,795
20		0,500	0,506	0,504	46,158	45,512	45,728					
30		0,493	0,483	0,481	46,912	47,989	48,204					
40		0,456	0,457	0,443	50,896	50,789	52,296					
50		0,436	0,418	0,401	53,050	54,988	56,819					
60		0,398	0,388	0,390	57,142	58,219	58,004					

Lampiran 14. Hasil Determinasi

HERBARIUM JATINANGORIENSIS
LABORATORIUM BIOSISTEMATIKA DAN MOLEKULER
DEPARTEMEN BIOLOGI, FMIPA UNPAD
 Gedung D2-212, Jl. Raya Bandung Sumedang Km 21 Jatinangor
 Telp. 022-7796412

LEMBAR IDENTIFIKASI TUMBUHAN
 No.251/LBM/IT/XII/2023

Herbarium Jatinangor, Laboratorium Biosistemika dan Molekuler, Departemen Biologi FMIPA UNPAD, dengan ini menerangkan bahwa:

Nama : Afifah Rusyda Sani
 NPM : 201FF03110
 Instansi : Universitas Bhakti Kencana
 Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: 317
 Tanggal Koleksi : 24 November 2023
 Lokasi : Kp. Cijoho Desa Sindanglaya-Kab. Garut, Jawa Barat

Hasil Identifikasi,

Nama Ilmiah : *Gnetum gnemon* L.
 Sinonim : *Gnetum gnemon* var. *gnemon*
 Nama Lokal : Melinjo
 Suku/Famili : *Gnetaceae* Blume

Referensi:

Cronquist, Arthur. 1981. *An Integrated System of Classification of Flowering Plants*.
 Columbia University Press. New York
 World Flora Online(2021): <https://powo.science.kew.org/>.

Jatinangor, 6 Desember 2023

Mengetahui,
Kepala Laboratorium



Annisa, M.Si., Ph.D.
NIP. 197802042006042001

Identifikator,



Drs. Joko Kusmoro, M.P.
NIP. 196008011991011001

Lampiran 15. Daftar Riwayat Hidup



Nama Lengkap : Afifah Rusyda Sani
NPM : 201FF03110
Tempat, Tanggal Lahir : Sumedang, 15 Maret 2002
Alamat : Komp. Permata Hijau F. 53, Kec. Rancaekek Kab.
Bandung
E-mail : 201ff03110@bku.ac.id
No. Hp : 0895344768749

Riwayat Pendidikan

SDN Permata Hijau : Tahun 2009-2015
SMPN 1 Rancaekek : Tahun 2015-2017
SMK Bhakti Kencana Cileunyi : Tahun 2017-2020
Universitas Bhakti Kencana : Tahun 2020-2024