

AGUSTIN HERMARIA PUTRI

Research and Development | Quality Control | Quality Assurance

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(+62) 838-8793-418 | Bandarlampung, Lampung

SUMMARY

Bachelor's degree in Chemistry from the Institute of Technology of Sumatra with hands-on experience in Laboratory Analysis, Quality Control, and Research. Experienced as a Quality Control Analyst at PT Bukit Asam Tbk, conducting daily testing on over 30 coal samples in accordance with ISO and ASTM standards. Served as a Research Assistant specializing in the isolation and characterization of bioactive compounds using UV-Vis, FTIR, NMR, and LC-MS techniques. Skilled in laboratory techniques, instrument operation, anticancer and antibacterial testing, and research report preparation. Currently seeking opportunities as a Chemist, Laboratory Analyst, Quality Control, Quality Assurance, or R&D Staff to apply analytical expertise and contribute to scientific and industrial innovation.

EDUCATIONAL BACKGROUND

INSTITUTE TECHNOLOGY OF SUMATERA

September 2020 – October 2024

Bachelor of Science in Chemistry (GPA: 3.10/4.00)

- **Fields of Study** : Instrumental Chemical Analysis, Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Environmental and Green Chemistry, Natural Products Organic Chemistry.
- **Thesis** : Isolation of Phenolic Compounds from the Bark of *Garcinia macrophylla* Mart. (Clusiaceae) and Testing Their Bioactivity as Antioxidants and Antibacterials Against *Propionibacterium acnes*.

WORK EXPERIENCES

INSTITUTE FOR JOINT PREPARATORY STAGES (LTPB) ITERA

September 2023 – November 2024

Basic Chemistry 1 & 2 Tutorial Assistant

- Conducted additional academic tutorials for Basic Chemistry 1 and 2 for approximately 2 hours each week for over 70 students in one class.
- Explained course material, guided assignments, and answered students' questions on a regular basis.
- Developed 20+ teaching materials aligned with the curriculum to ensure relevance and clarity.

FINAL PROJECT – FACULTY RESEARCH GRANT

August 2023 – August 2024

Research Assistant

- Conducted research on the exploration and isolation of phenolic compounds and xanthenes from *Garcinia macrophylla*, focusing on their anticancer and antibacterial properties
- Isolated 5+ compounds through extraction and chromatography, and characterized them using UV-Vis, FTIR, NMR, and LC-MS.
- Performed cytotoxicity tests (MTT Assay) on breast cancer cells and antibacterial tests on 4 pathogenic bacteria.
- Analyzed samples using Origin, Mnova, ChemDraw, and Excel, and compiled reports for publication.

ITERA CHEMISTRY LABORATORY

September 2023 – November 2023

Laboratory Assistant

- Supervised 70 students in 9 laboratory sessions, each lasting 3 hours per week, for two courses: Monofunctional Organic Compounds and Instrumental Analytical Chemistry.
- Demonstrated laboratory techniques such as distillation, recrystallization, extraction, titration, UV-Vis, and TLC.
- Trained students in the use and calibration of UV-Vis spectrophotometers, chromatography instruments, and pH meters.

- Analyzed over 100 laboratory reports per week and provided technical and conceptual feedback.
- Developed 10 laboratory modules covering theory, procedures, case studies, and data analysis.

PT BUKIT ASAM TBK UNIT PELABUHAN TARAHAH

June 2023 – July 2023

Internship – Quality Control Analyst

- Tested over 30 coal samples per day (moisture content, ash, volatile matter, sulfur, calorific value) in accordance with ISO 1171, ISO 1928, and ASTM D5865.
- Performed acid correction on Gross Calorific Value (GCV) using the ASTM D5865M-19 method.
- Prepared samples through drying, grinding, and sieving to ensure analysis homogeneity and accuracy.
- Recorded and verified 150+ analytical results in laboratory systems and spreadsheets.
- Compiled daily test reports, interpreted analytical data, and submitted results to supervisors and management.

ORGANIZATIONAL AND COMMITTEE EXPERIENCES

EXPERTISE AND COMMUNITY LEARNING SERVICE SCHEME

August 2024

Volunteer

- Provided training to 20+ members of the Patoman Village PKK on preparing Gayo-style medicinal foods and preserving the medicinal properties of herbs and spices.
- Conducted health education on healthy eating habits and the use of traditional foods as functional foods.

CHEMISTRY STUDENT ASSOCIATION

August 2023 – February 2024

Chair of the Arts Division

- Organized over 10 talent development activities (competitions and training) with over 100 participants.
- Collaborated with over 5 divisions to significantly increase student involvement in non-academic activities.

CHEMISTRY STUDENT ASSOCIATION

August 2022 – February 2023

Member of the Interest and Talent Division

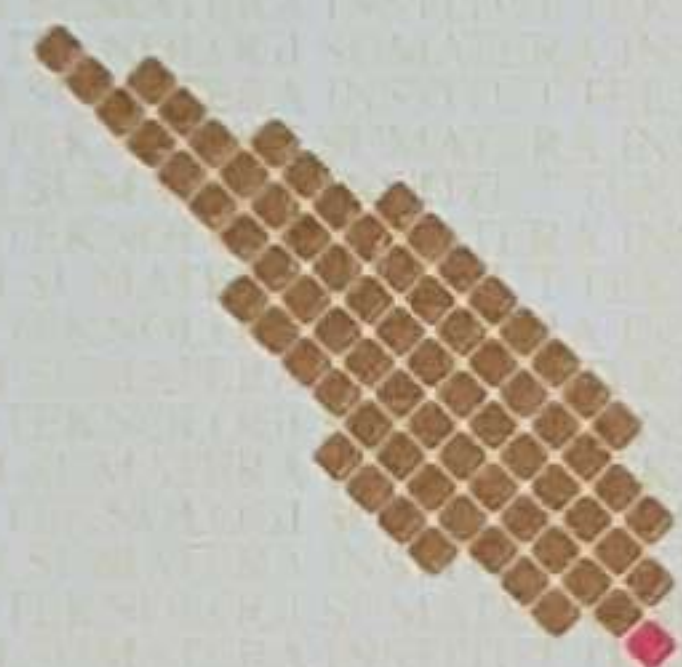
- Managed the annual arts event: budget of IDR 10 million, coordination of 20+ committee members, and activity evaluation.
- Organized the first HMK arts event with 250+ participants and 30+ artworks by chemistry students.

SKILL COMPETENCIES

- **Analytical Techniques** : UV-Vis, FTIR, NMR, LC-MS, TLC, Distillation, Recrystallization, Compound Extraction, MTT Assay, Antioxidant Assay, and Antibacterial Assay.
- **Quality Control** : Coal Quality Analysis (Moisture Content, Ash, Volatile Matter, Sulfur, Calorific Value) According To ISO/ASTM Standards, Including Data Interpretation and Test Result Reporting
- **Laboratory Skills** : Sample preparation (drying, grinding, sieving), instrument calibration (UV-Vis, chromatography, pH meter), method validation, and implementation of GLP and OHS.
- **Data Analysis** : Origin, Mnova, ChemDraw, SPSS, Microsoft Office, Google Workspace.
- **Soft Skills** : Leadership, Teamwork, Problem-Solving, Critical Thinking, Public Speaking, and Time Management
- **Language** : English (Intermediate)

CERTIFICATIONS

- **Certification in “Environmental Management System Based on ISO 14001:2015”**, Makin Ahli, 2025.
- **Certification in “Occupational Health & Safety Management System Based on ISO 45001:2018”**, Makin Ahli, 2025.
- **Certification in “Occupational Health & Safety Management System Based on SMK3 PP No. 50 of 2012”**, Makin Ahli, 2025.



INSTITUT TEKNOLOGI SUMATERA

Menyatakan Bahwa

AGUSTIN HERMARIA PUTRI

Lahir pada tanggal 14 Agustus 2002 di Bandar Lampung

Diterima pada Semester 1 Tahun Akademik 2020/2021

Dengan Nomor Induk Mahasiswa 120270070

Telah menyelesaikan studi dan memenuhi segala syarat pendidikan Sarjana
pada Program Studi

S1 KIMIA

Dengan Nomor Pokok Program Studi 47201

Pada tanggal 28 Oktober 2024

Oleh karena itu diberikan kepadanya gelar

Sarjana Sains (S.Si.)

Beserta segala hak dan kewajiban yang melekat pada gelar tersebut

Diberikan di Lampung Selatan, 26 April 2025

Dekan Fakultas Sains,

Dr. Ikah Ning Prasetiowati Permanasari, S.Si., M.Si.



Rektor,

Prof. Dr. I Nyoman Pugeg Aryantha



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET, DAN TEKNOLOGI**
INSTITUT TEKNOLOGI SUMATERA
Jalan Terusan Ryacudu Way Hui, Kecamatan Jati Agung, Lampung Selatan 35365
Telepon: (0721) 8030188
Email: pusat@itera.ac.id, Website : <http://itera.ac.id>

TRANSKRIP AKADEMIK

Nama : AGUSTIN HERMARIA PUTRI
NIM : 120270070
Jurusan : Fakultas Sains
Program Studi : S1 KIMIA
Program Pendidikan : Strata-1

NO	KODE MK	MATAKULIAH	SKS	NILAI	NO	KODE MK	MATAKULIAH	SKS	NILAI
1	BI1103	Biologi Dasar 1B	2	B	28	KI3131	Struktur dan Keanekaragaman Senyawa Anorganik	3	B
2	KU0003	Bahasa Indonesia	2	AB	29	KI3142	Metabolisme dan Informasi Genetik	4	B
3	KU0007	Pengantar Komputer dan Software 1	2	BC	30	KI3151	Kinetika Kimia	3	BC
4	FI1102	Fisika Dasar 1A	4	B	31	KI3161	Sintesis dan Mekanisme Reaksi Organik	3	C
5	KI1103	Kimia Dasar 1A	3	C	32	KI3172	Kimia Katalis dan Enzimologi	2	B
6	KU1004	Olahraga	2	AB	33	KU0005	Kuliah Kerja Nyata	2	A
7	KU0004	Bahasa Inggris	2	BC	34	KI3123	Kimia Analisis Instrumen	3	B
8	FI1202	Fisika Dasar II	4	AB	35	KI3261	Elastisitas Struktur Senyawa Organik	3	BC
9	KI2103	Kimia Dasar II	3	BC	36	KI3264	Kimia Heterosiklik	2	AB
10	KU1003	Lingkungan Hidup Sumatera	2	BC	37	KI3263	Kimia Organik Bahan Alam	2	AB
11	MA1203	Matematika Dasar II	4	B	38	KI3222	Kimia Forensik	2	A
12	KU0008	Pengantar Komputer dan Software 2	2	A	39	KI3216	Metodologi Penelitian	2	B
13	MA1103	Matematika Dasar IA	4	B	40	KI3215	Kimia Lingkungan dan Kimia Hijau	3	AB
14	KI2131	Kimia Unsur Golongan Utama	4	BC	41	KI3214	Manajemen Laboratorium dan Industri	3	AB
15	KU0011	Agama Islam	2	AB	42	KI3213	Etika Profesi	2	A
16	KI2141	Dasar-Dasar Kimia Hayati	3	AB	43	KI3212	Kewirausahaan Kimia	2	A
17	KI2161	Senyawa Organik Monofungsi	4	B	44	KI4003	Karya Praktik	2	A
18	KI2172	Visualisasi Molekul	2	C	45	KI3162	Kimia Organik Fisik	2	AB
19	KI2151	Struktur dan Ikatan Kimia	3	C	46	KI3171	Kimia Medisinal	3	A
20	KI2121	Dasar-Dasar Kimia Analitik	4	AB	47	KI3143	Bioteknologi Komputasi	2	A
21	KU0009	Pancasila	2	A	48	KI3163	Biokimia	2	BC
22	KI2231	LOGAM TRANSISI DAN SENYAWA KOORDINASI	4	C	49	KI3153	Kimia Permukaan dan Koloid	2	AB
23	KI2241	Struktur dan Fungsi Biomolekul	4	C	50	KU0006	Studi Umum	2	A
24	KI2261	SENYAWA ORGANIK POLIFUNGSI	4	AB	51	KI4006	Seminar dan Skripsi Tugas Akhir	1	AB
25	KI2221	METODE ANALISIS KIMIA	4	B	52	KI4004	Proposal dan Penelitian Pendahuluan	2	A
26	KU0010	Kewarganegaraan	2	A	53	KI4005	TUGAS AKHIR	4	A
27	KI2251	ENERGETIKA KIMIA	3	C					

Keterangan : A (4) = Sangat Baik, AB (3.5) = Antara Baik dan Sangat Baik, B (3) = Baik, BC (2.5) = Antara Cukup Baik dan Baik, C (2) = Cukup, D (1) = Hampir Cukup

TOTAL SKS : 144

Indeks Prestasi Kumulatif (IPK) : 3,10

Lampung Selatan, 29 Agustus 2024
Dekan Fakultas Sains
Institut Teknologi Sumatera
Dr. Ikah Nings Priatetawati Permasari, S.Si., M.Si.
NIP. 198510218012122002

MAKIN AHLI



CERTIFICATE

688/AH-OH1/MA/IV-2025

This Certificate is Proudly Presented to

Agustin Hermaria Putri, S.Si

Has successfully completed training

**Awareness Training Occupational Health & Safety
Management System Based on ISO 45001:2018**

On April 12, 2025



Ariyani Wastika Mukti, S. Si

Head of Learning and Development

Sanjaya, B.Sc.

Trainer

www.makinahli.com

MAKIN AHLI



CERTIFICATE

688/AH-OH4/MA/IV-2025

This Certificate is Proudly Presented to

Agustin Hermaria Putri, S.Si

Has successfully completed training

**Awareness Training Occupational Health & Safety
Management System Based on SMK3 PP No 50 Tahun 2012**

On April 12, 2025



Ariyani Wastika Mukti, S. Si

Head of Learning and Development

Sanjaya, B.Sc.

Trainer

www.makinahli.com

MAKIN AHLI



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On April 12, 2025



Ariyani Wastika Mukti, S. Si

Head of Learning and Development

Sanjaya, B.Sc.

Trainer

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SERTIFIKAT

No: B/ 96 /25501/HM.03/IX/2023

Diberikan Kepada:

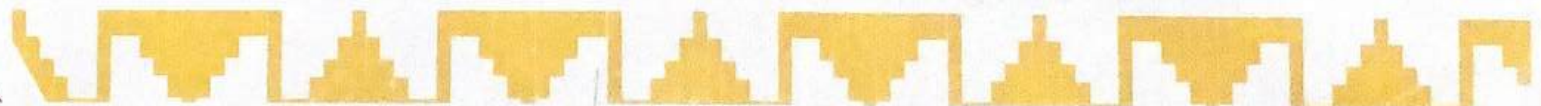
AGUSTIN HERMARIA PUTRI
INSTITUT TEKNOLOGI SUMATERA

Telah melaksanakan Praktik Kerja Lapangan di PT Bukit Asam Tbk Pelabuhan Tarahan
pada tanggal 12 Juni 2023 s/d 14 Juli 2023

Bandar Lampung, 06 September 2023
PT Bukit Asam Tbk



Hamdani B Yusdi
AVP SDM, Umum, Keuangan & CSR





FAKULTAS SAINS
LABORATORIUM KIMIA
INSTITUT TEKNOLOGI SUMATERA
SERTIFIKAT

NO: 29.1367/IT9.3.1/PK.01.04/2023

Dengan bangga kami berikan kepada

Agustin Hermaria P

Atas Dedikasi, Semangat, dan Kerja Keras sebagai asisten praktikum
Senyawa Organik Monofungsi

Dekan Fakultas Sains



Dr. Ikah Ning P. Permanasari, M.Si.
NIP. 198510212012122002

Koordinator Laboratorium Fakultas Sains



apt. Annisa Maulidia R., S.Farm., M.S.Farm.
NIP. 199308192022032011

Koordinator Laboratorium Kimia



Arif Ashari, S.Si., M.Si.
NIP. 199109102019031012



FAKULTAS SAINS
LABORATORIUM KIMIA
INSTITUT TEKNOLOGI SUMATERA
SERTIFIKAT

NO: 29.1367/IT9.3.1/PK.01.04/2023

Dengan bangga kami berikan kepada

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Atas Dedikasi, Semangat, dan Kerja Keras sebagai asisten praktikum
Senyawa Organik Polifungsi

Dekan Fakultas Sains



Dr. Ikah Ning P. Permanasari, M.Si.
NIP. 198510212012122002

Koordinator Laboratorium Fakultas Sains



apt. Annisa Maulidia R., S.Farm., M.S.Farm.
NIP. 199308192022032011

Koordinator Laboratorium Kimia



Arif Ashari, S.Si., M.Si.
NIP. 199109102019031012



FAKULTAS SAINS
LABORATORIUM KIMIA
INSTITUT TEKNOLOGI SUMATERA
SERTIFIKAT

NO: 29.1379/IT9.3.1/PK.01.04/2023

Dengan bangga kami berikan kepada

Agustin Hermaria Putri

Atas Dedikasi, Semangat, dan Kerja Keras sebagai asisten praktikum
Kimia Analisis Instrumen

Dekan Fakultas Sains



Dr. Ikah Ning P. Permanasari, M.Si.
NIP. 198510212012122002

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Koordinator Laboratorium Kimia



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