

LAMPIRAN

Lampiran 1. COA Hidrotalsit


济南未来化工有限公司
JINAN FUTURE CHEMICAL CO.,LTD.
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 Shandong province
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Certificate of Analysis

Product Name: HYDROTALCITE

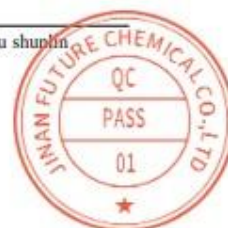
CAS No.: 11097-59-9

ANALYTICAL DATA

Item	Index
MgO Content:	32-35%
Al ₂ O ₃ Content:	18.0-21.0%
Fe Content:	≤0.1
Heavy metal Content:	≤0.001
loss on drying:	≤1%
Bulk density (g/ml):	0.2-0.3
Degree of whiteness:	≥90
PH:	7-10
Average particle size:	2000 nm
Dehydration start temperature:	350℃
Specific surface area BET:	158
Specific gravity of hydrotalcite:	2.1

检验(QC): 龙慧琳 Long huilin

审核(CE): 刘舜霖 Liu shunlin



Lampiran 2. Perhitungan rendemen Mg / Al-Hidrotalsit

$$\% \text{ Rendemen } \textit{High Supersaturation} = \frac{Mg+Al+NaOH+NaHCO_3}{\textit{Hasil rendemen}} \times 100 \%$$

$$= \frac{9,15+5,43+4+2,4}{32,68} \times 100 \%$$

$$= 60,09 \%$$

$$\% \text{ Rendemen } \textit{Low Supersaturation} = \frac{Mg+Al+NaOH+Na_2O_3}{\textit{Hasil rendemen}} \times 100 \%$$

$$= \frac{9,15+5,43+4+1,06}{57,80} \times 100 \%$$

$$= 36,30 \%$$

Lampiran 3. Perhitungan nilai KPA (mEq/gram)

1. Nilai KPA *High Supersaturation*

$$\text{mEq} = (30 \times \text{NHCl}) - (\text{VNaOH} \times \text{NNaOH})$$

$$= (30 \times 1) - (35,5 \times 0,5)$$

$$= 30 - 17,75$$

$$= 12,25 \text{ mEq/gram}$$

2. Nilai KPA *Low Supersaturation*

$$\text{mEq} = (30 \times \text{NHCl}) - (\text{VNaOH} \times \text{NNaOH})$$

$$= (30 \times 1) - (37 \times 0,5)$$

$$= 30 - 18,5$$

$$= 11,5 \text{ mEq/gram}$$

3. Nilai KPA *Hidrotalsit Murni*

$$\text{mEq} = (30 \times \text{NHC}) - (\text{VNaOH} \times \text{NNaOH})$$

$$= (30 \times 1) - (38,2 \times 0,5)$$

$$= 30 - 19,1$$

$$= 10,9 \text{ mEq/gram}$$

Lampiran 4. Perhitungan Presentase Kelarutan

1. High Supersaturation

$$\begin{aligned}\text{pH 1} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\ &= \frac{0,19}{0,5} \times 100 \% \\ &= 38 \%\end{aligned}$$

$$\begin{aligned}\text{pH 2} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\ &= \frac{0,12}{0,5} \times 100 \% \\ &= 28,4 \%\end{aligned}$$

$$\begin{aligned}\text{pH 3} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\ &= \frac{0,0425}{0,5} \times 100 \% \\ &= 8,5 \%\end{aligned}$$

$$\begin{aligned}\text{pH 4} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\ &= \frac{0,0043}{0,5} \times 100 \% \\ &= 0,86 \%\end{aligned}$$

2. Low Supersaturation

$$\begin{aligned}\text{pH 1} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\ &= \frac{0,18}{0,5} \times 100 \% \\ &= 36 \%\end{aligned}$$

$$\begin{aligned}\text{pH 2} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\ &= \frac{0,14}{0,5} \times 100 \% \\ &= 28 \%\end{aligned}$$

$$\begin{aligned}
 \text{pH 3} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\
 &= \frac{0,042}{0,5} \times 100 \% \\
 &= 8,4 \%
 \end{aligned}$$

$$\begin{aligned}
 \text{pH 4} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\
 &= \frac{0,0040}{0,5} \times 100 \% \\
 &= 0,8 \%
 \end{aligned}$$

3. Hidrotalsit Komersial

$$\begin{aligned}
 \text{pH 1} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\
 &= \frac{0,33}{0,5} \times 100 \% \\
 &= 66 \%
 \end{aligned}$$

$$\begin{aligned}
 \text{pH 2} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\
 &= \frac{0,127}{0,5} \times 100 \% \\
 &= 25,4 \%
 \end{aligned}$$

$$\begin{aligned}
 \text{pH 3} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\
 &= \frac{0,038}{0,5} \times 100 \% \\
 &= 7,6 \%
 \end{aligned}$$

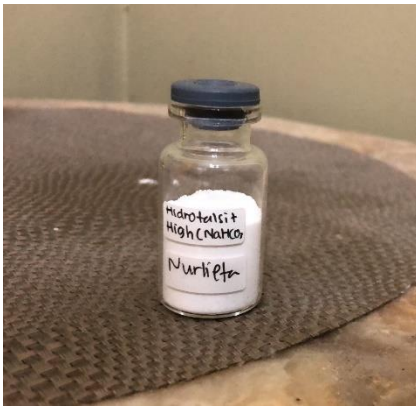
$$\begin{aligned}
 \text{pH 4} &= \frac{\text{Berat zat terlarut}}{\text{Berat awal hidrotalsit}} \times 100 \% \\
 &= \frac{0,0047}{0,5} \times 100 \% \\
 &= 0,94 \%
 \end{aligned}$$

Lampiran 5. Dokumentasi Penelitian

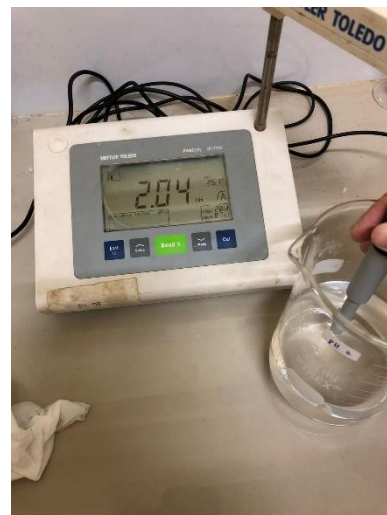
1. Hasil endapan sintesis



2. Hasil serbuk Mg / Al-Hidrotalsit

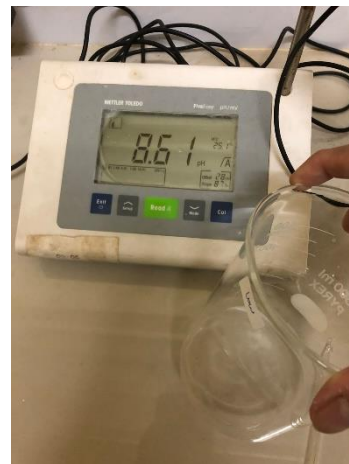


3. Uji Kelarutan (Variasi larutan pH 1-4)





4. Hasil pH sediaan dari hasil sintesis



Lampiran 6. Kartu Bimbingan

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



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Utama	: apt. Deny Puriyani Azhary, M. SI
Nama Mahasiswa	: Nurlieta Ananda Tazkia
NPM	: 191FF03020
Bidang Ilmu	: Farmasetika Teknologi Farmasi

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Kamis, 09-03-2023	13.00 WIB	Whatsapp	Diskusi Alat & Bahan Penelitian	AS
2	Jumat, 24-03-2023	09.00 WIB	Zoom meeting	Diskusi Prosedur kerja penelitian	AS
3	Senin, 03-04-2023	13.00 WIB	Whatsapp	Diskusi bahan penelitian yang digunakan	AS
4	Kamis, 06-04-2023	12.00 WIB	Whatsapp	Memperlihatkan hasil penelitian format 1	AS
5	Senin, 10-04-2023	10.00 WIB	Whatsapp	Memperlihatkan hasil Penelitian	AS
6	Sabtu, 15-04-2023	09.00 WIB	Kampus UBK	Laporan Kemajuan I TA II	AS
7	Kabu, 19-04-2023	09.00 WIB	Zoom meeting	Presentasi laporan kemajuan I	AS
8	Selasa, 02-05-2023	14.00 WIB	Whatsapp	Diskusi bahan penelitian	AS
9	Kamis, 04-05-2023	10.00 WIB	Whatsapp	Diskusi progress penelitian	AS
10	Jumat, 05-05-2023	10.00 WIB	Kampus UBK	Progress penelitian	AS
11	Senin, 08-05-2023	10.00 WIB	Kampus UBK	Pengujian PSA	AS
12	Kamis, 15-06-2023	10.00 WIB	Kampus UBK	Progress Penelitian	AS
13	Senin, 10-07-2023	11.00 WIB	Kampus ITB	Draft Skripsi & Revisi bab 1-6	AS

Jl. Soekarno Hatta No 754 Bandung

022 7830 760, 022 7830 168

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

022 7830 760, 022 7830 168



Fakultas Farmasi
Universitas
Bhakti Kencana

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



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Serta	: Reza Pratama, M. Farm
Nama Mahasiswa	: Nurieta Ananda Tazkia
NPM	: 191FF03020
Bidang Ilmu	: Farmasetika Teknologi Farmasi

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Senin, 03-04-2023	12.00 WIB	Kampus UBK	Pelaporan logbook penelitian	Bal
2	Jumat, 14-04-2023	12.00 WIB	whatsapp	Laporan kemajuan 1	Bal
3	Selasa, 18-04-2023	15.00 WIB	whatsapp	laporan laporan kemajuan 1	Bal
4	Rabu, 19-04-2023	10.00 WIB	zoom	Presentasi laporan kemajuan 1	Bal
5	Selasa, 02-05-2023	13.00 WIB	Kampus UBK	Progress penelitian	Bal
6	Jumat, 19-05-2023	17.30 WIB	Zoom	Presentasi laporan kemajuan 2	Bal
7	Rabu, 24-05-2023	13.00 WIB	Kampus UBK	TTO lap kemajuan & Progress penelitian	Bal
8	Kamis, 22-06-2023	14.00 WIB	whatsapp	Progress penelitian (karakterisasi)	Bal
9	Selasa, 27-06-2023	13.00 WIB	Kampus UBK	Progress penelitian & draft skripsi	Bal
10	Rabu, 12-07-2023	14.00 WIB	Kampus UBK	Draft Laporan Tugas Akhir & Revisi Bab 1 - 6	Bal

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

Jl. Soekarno Hatta No 754 Bandung

☎ 022 7830 760, 022 7830 768

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Lampiran 7. Hasil Turnitin

87. Nurlieta ananda tazkia_191FF03020			
ORIGINALITY REPORT			
11%	11%	2%	3%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS
PRIMARY SOURCES			
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7	A. S. Amarasekara. "Structural tautomerism of 4-acylpyrazolone schiff bases and crystal structure of 5-methyl-2-phenyl-4-{1-[(pyridin-2-ylmethyl)-amino]-ethylidene}-2,4-dihydro-pyrazol-3-one", Journal of Structural Chemistry, 12/2009 Publication		1%

Lampiran 8. Daftar Riwayat Hidup



Nama : Nurlieta Ananda Tazkia
 Tempat Tanggal Lahir : Purwakarta, 18 Juli 2001
 Jenis Kelamin : Perempuan
 Agama : Islam
 Kewarganegaraan : Indonesia
 Alamat : Kp. Pangupukan, RT/RW 04/01, Kel. Munjul Jaya, Kec.
 Purwakarta, Kab. Purwakarta
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 E-mail : 191ff03020@bku.ac.id

PENDIDIKAN

TK : TK Plus Tunas Rimba
 SD : SDN 1 Nagri Kidul
 SMP : SMPN 1 Purwakarta
 SMA : SMAN 1 Purwakarta
 S1 : Universitas Bhakti Kencana