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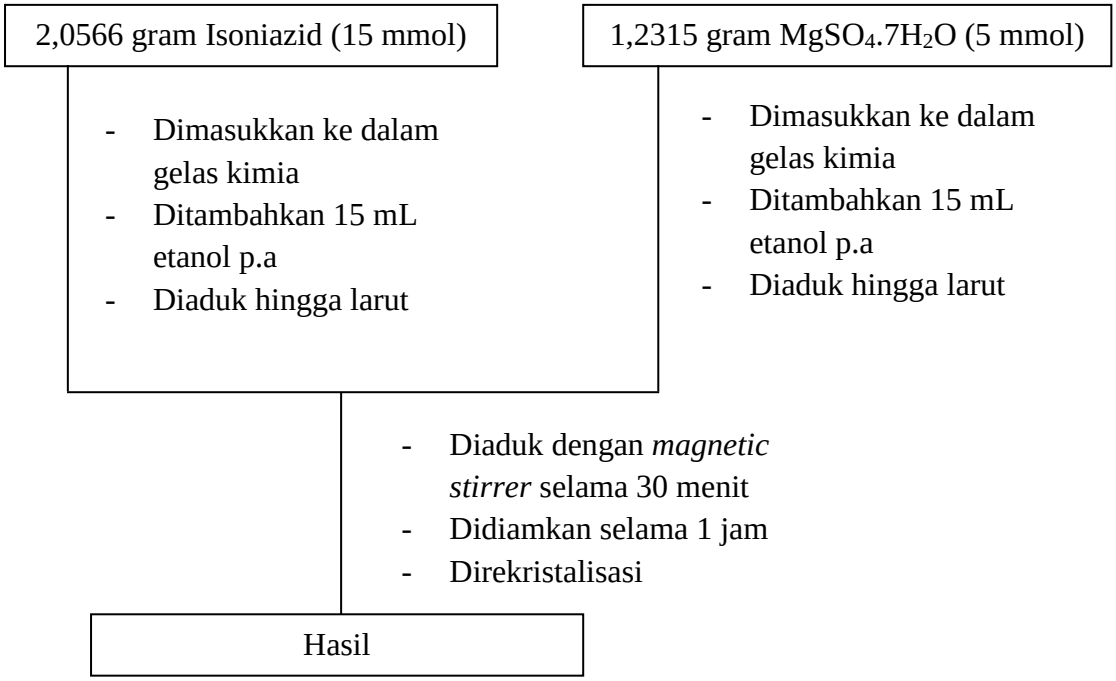
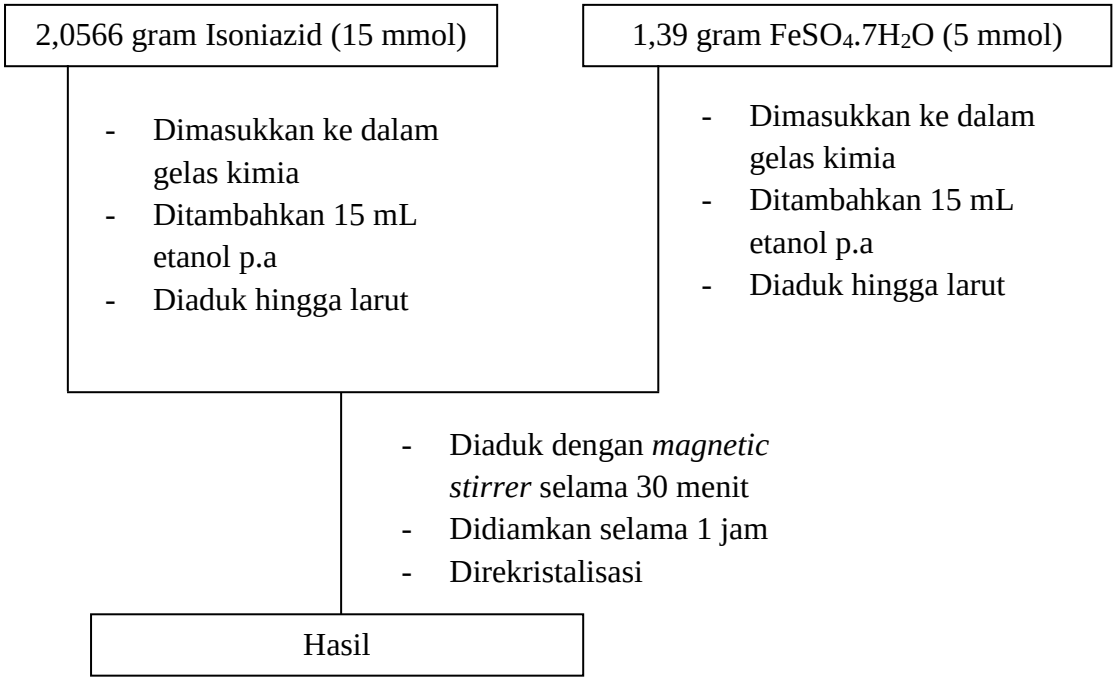
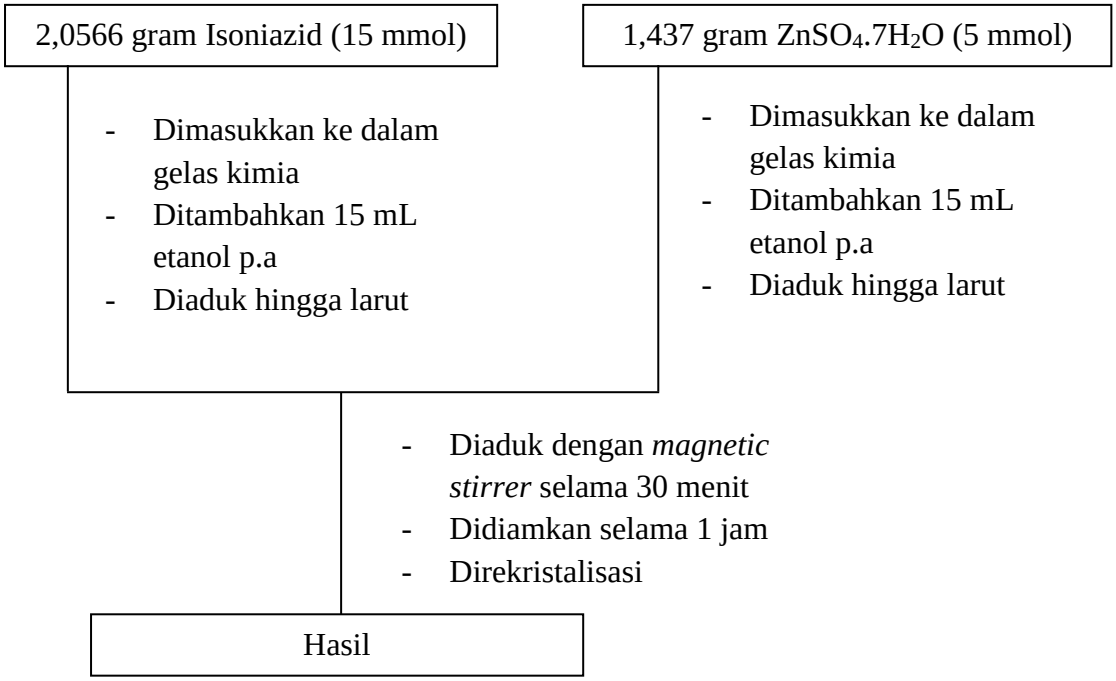
Lampiran 1. Bagan Kerja Pembuatan Senyawa Kompleks Mg-isoniazid



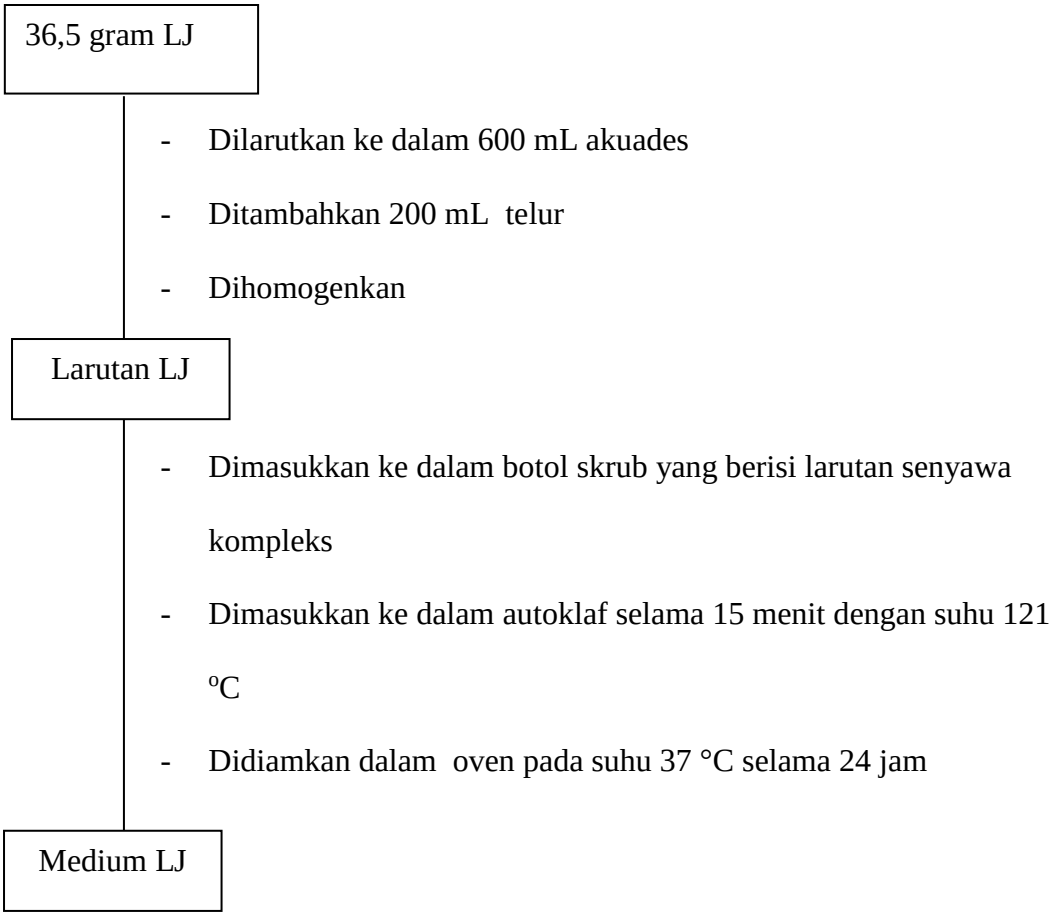
Lampiran 2. Bagan Kerja Pembuatan Senyawa Kompleks Fe-isoniazid



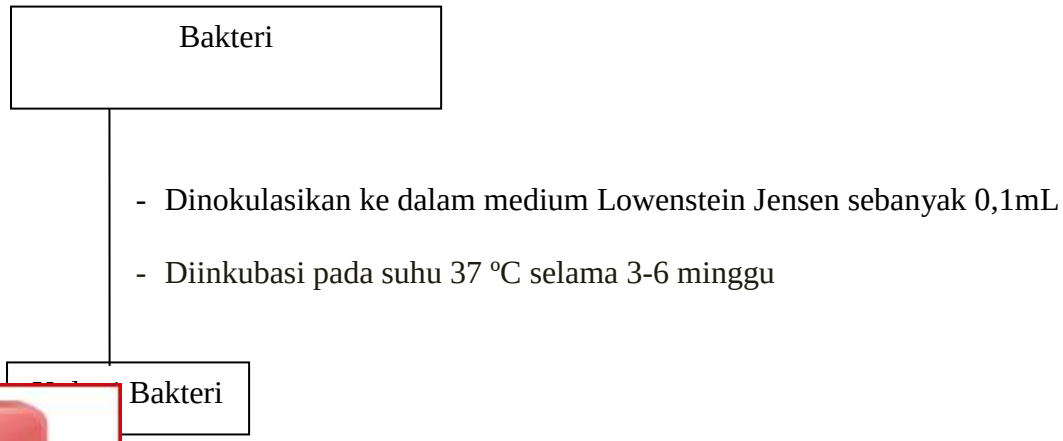
Lampiran 3. Bagan Kerja Pembuatan Senyaw Kompleks Zn-isoniazid



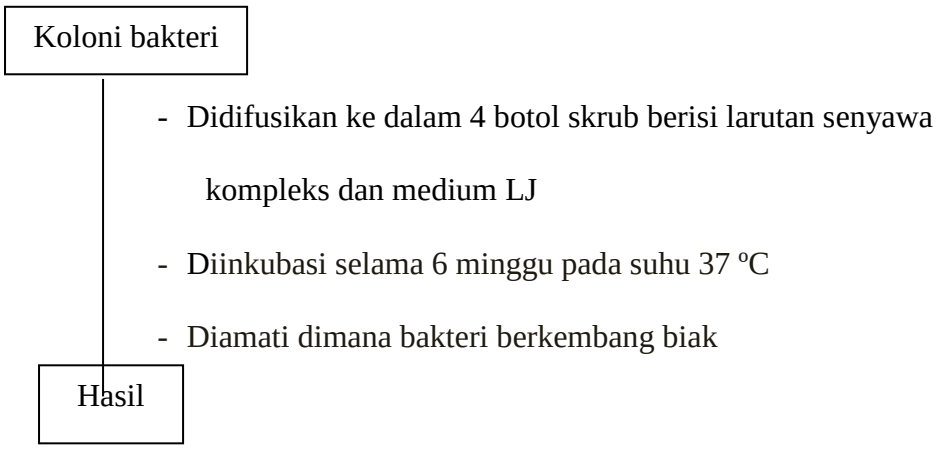
Lampiran 4. Bagan Kerja Pembuatan Medium Pertumbuhan LJ



Lampiran 5. Bagan Kerja Penyiapan Bakteri Uji



Lampiran 6. Bagan Kerja Uji Aktivitas Senyawa Kompleks



Lampiran 7. Perhitungan Rendemen Senyawa Kompleks

a. Senyawa Kompleks Mg-isoniazid

$$\% \text{ rendemen} = \frac{\text{berat praktek}}{\text{berat teori}} \times 100\%$$

$$= \frac{2{,}0413 \text{ gram}}{3{,}2881 \text{ gram}} \times 100\%$$

$$= 62{,}08\%$$

b. Senyawa Kompleks Fe-isoniazid

$$\% \text{ rendemen} = \frac{\text{berat praktel}}{\text{berat teori}} \times 100\%$$

$$= \frac{2{,}9103 \text{ gram}}{3{,}4466 \text{ gram}} \times 100\%$$

$$= 84{,}44\%$$

c. Senyawa Kompleks Zn-isoniazid

$$\% \text{ rendemen} = \frac{\text{berat praktek}}{\text{berat teori}} \times 100\%$$

$$= \frac{3{,}0135 \text{ gram}}{3{,}4963 \text{ gram}} \times 100\%$$

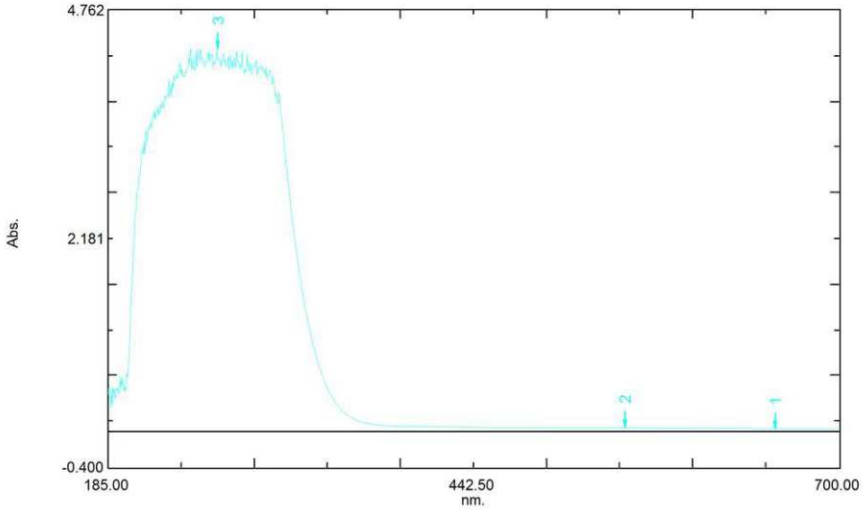
$$= 86{,}19\%$$

Lampiran 8. Data Spektrum UV-Vis Senyawa Isoniazid

Spectrum Peak Pick Report

01/03/2019 10:57:15 AM

Data Set: Isoniazid.spc - RawData



No.	P/V	Wavelength	Abs.	Description
1	↑	655.50	0.033	
2	↑	549.50	0.046	
3	↑	262.00	4.312	

[Measurement Properties]
Wavelength Range (nm.): 185.00 to 700.00
Scan Speed: Medium
Sampling Interval: 0.5
Auto Sampling Interval: Enabled
Scan Mode: Single

[Instrument Properties]
Instrument Type: UV-2600 Series
Measuring Mode: Absorbance
Slit Width: 0.2
Accumulation time: 0.2 sec.
Light Source Change Wavelength: 323.0 nm
Detector Unit: Direct
S/R Exchange: Normal
Stair Correction: OFF

[Attachment Properties]
Attachment: None

[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
Weight:
Volume:
Dilution:
Path Length:
Additional Information:

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Lampiran 9. Data Spektrum UV-Vis Senyawa Kompleks Mg-isoniazid

Spectrum Peak Pick Report

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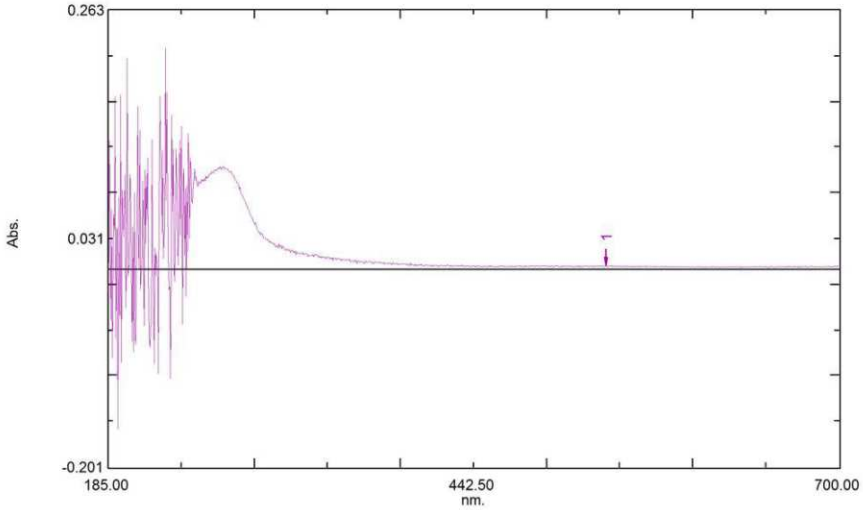

No.	P/V	Wavelength	Abs.	Description
1		535.50	0.004	

[Measurement Properties]
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Scan Speed: Medium
Sampling Interval: 0.5
Auto Sampling Interval: Enabled
Scan Mode: Single

[Instrument Properties]
Instrument Type: UV-2600 Series
Measuring Mode: Absorbance
Slit Width: 0.2
Accumulation time: 0.2 sec.
Light Source Change Wavelength: 323.0 nm
Detector Unit: Direct
S/R Exchange: Normal
Stair Correction: OFF

[Attachment Properties]
Attachment: None

[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
Weight:
Volume:
Dilution:
Path Length:
Additional Information:

Page 1 / 1

Lampiran 10. Data Spektrum UV-Vis Senyawa Kompleks Fe-isoniazid

Spectrum Peak Pick Report

01/03/2019 10:56:14 AM

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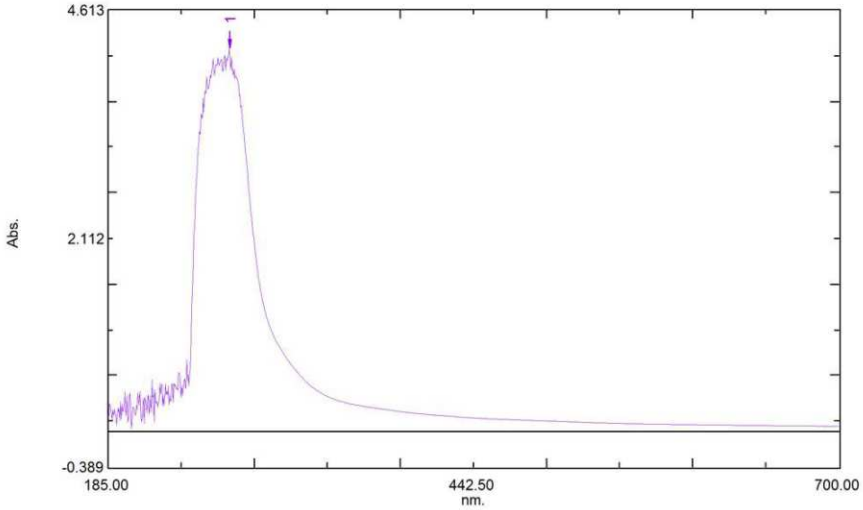

No.	P/V	Wavelength	Abs.	Description
1		270.50	4.196	

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Auto Sampling Interval: Enabled
Scan Mode: Single

[Instrument Properties]
Instrument Type: UV-2600 Series
Measuring Mode: Absorbance
Slit Width: 0.2
Accumulation time: 0.2 sec.
Light Source Change Wavelength: 323.0 nm
Detector Unit: Direct
S/R Exchange: Normal
Stair Correction: OFF

[Attachment Properties]
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[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
Weight:
Volume:
Dilution:
Path Length:
Additional Information:

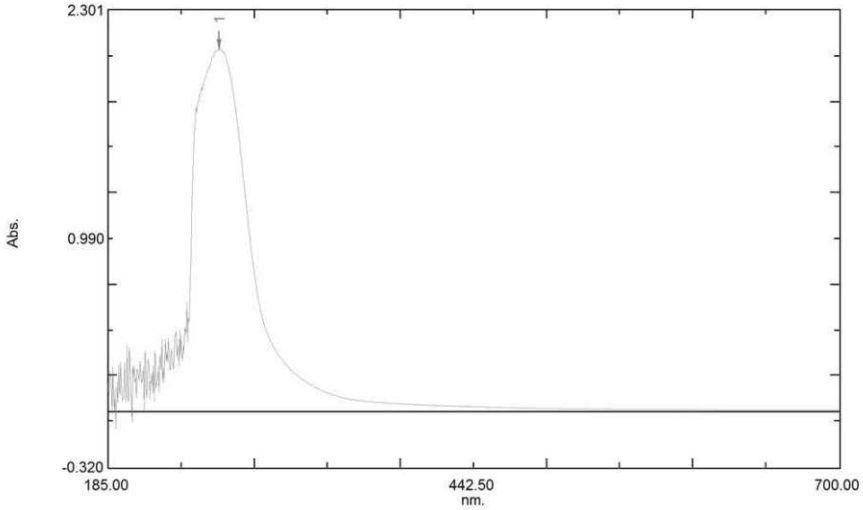
Page 1 / 1

Lampiran 11. Data Spektrum UV-Vis Senyawa Kompleks Zn-isoniazid

Spectrum Peak Pick Report

01/03/2019 10:59:07 AM

Data Set: Zn Isoniazid.spc - RawData



No.	P/V	Wavelength	Abs.	Description
1		263.00	2.082	

[Measurement Properties]
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Scan Mode: Single

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[Operation]
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InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
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Dilution:
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Additional Information:

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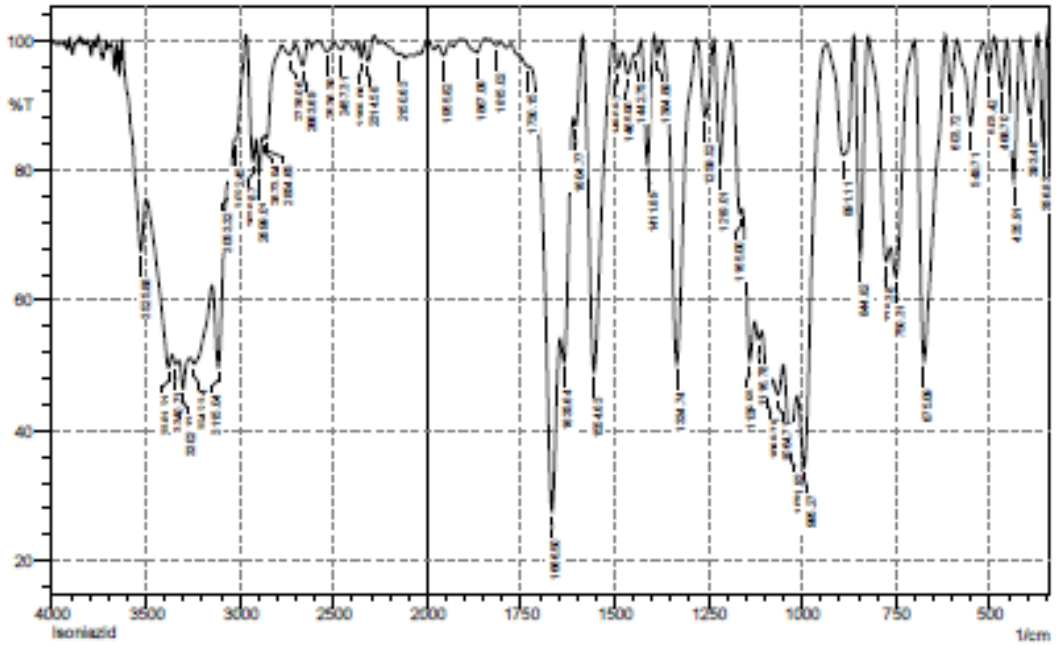
Lampiran 12. Data FTIR Senyawa Isoniazid



	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	356.83	82.057	17.756	372.26	347.19	0.902	0.981
2	393.48	88.535	11.726	414.7	374.19	1.177	1.222
3	435.91	78.389	21.749	453.27	416.62	1.803	1.823
4	468.7	92.586	7.833	487.99	455.2	0.534	0.571
5	503.42	95.113	4.898	516.92	487.99	0.308	0.313
6	549.71	86.649	12.939	566.98	516.92	1.671	1.609
7	603.72	92.632	7.763	619.15	586.38	0.488	0.541
8	675.09	50.643	49.327	700.16	619.15	10.856	10.924
9	750.31	83.7	11.301	763.81	702.09	5.808	1.298
10	775.38	86.029	7.478	823.6	765.74	4.997	0.669
11	844.82	66.669	33.782	862.18	825.53	2.023	2.992
12	891.11	82.297	17.699	933.55	864.11	3.151	3.119
13	995.27	34.486	22.967	1012.63	935.48	15.611	4.003
14	1031.92	37.498	10.147	1040.26	1014.56	13.023	1.785
15	1064.71	45.598	3.341	1078.21	1051.2	8.831	0.466
16	1089.76	45.724	4.648	1107.14	1080.14	8.511	0.624
17	1116.78	54.027	1.88	1126.43	1109.07	4.523	0.139
18	1139.93	50.764	12.386	1159.22	1128.36	7.252	1.323
19	1165	73.32	4.326	1188.15	1161.15	2.298	0.415
20	1219.01	80.981	18.889	1236.37	1190.08	1.847	1.807
21	1259.52	88.097	11.822	1280.73	1238.3	1.267	1.25
22	1334.74	50.243	49.626	1373.32	1282.66	9.7	9.653
23	1384.89	97.585	2.701	1394.53	1375.25	0.097	0.12
24	1411.89	80.82	19.218	1429.25	1396.46	1.451	1.457
25	1442.75	97.59	0.948	1448.54	1431.18	0.133	0.047
26	1465.9	94.815	3.151	1477.47	1448.54	0.478	0.218
27	1490.97	95.677	3.224	1504.48	1477.47	0.307	0.177
28	1554.63	49.11	51.114	1585.49	1504.48	10.281	10.328
29	1604.77	86.881	3.149	1608.63	1587.42	0.754	0.223
30	1635.64	50.509	12.984	1645.28	1610.56	6.671	1.378
31	1666.5	27.712	38.468	1726.29	1647.21	18.459	7.596
32	1730.15	95.825	0.313	1753.29	1726.29	0.418	0.026
33	1815.02	99.099	0.729	1834.3	1803.44	0.061	0.045

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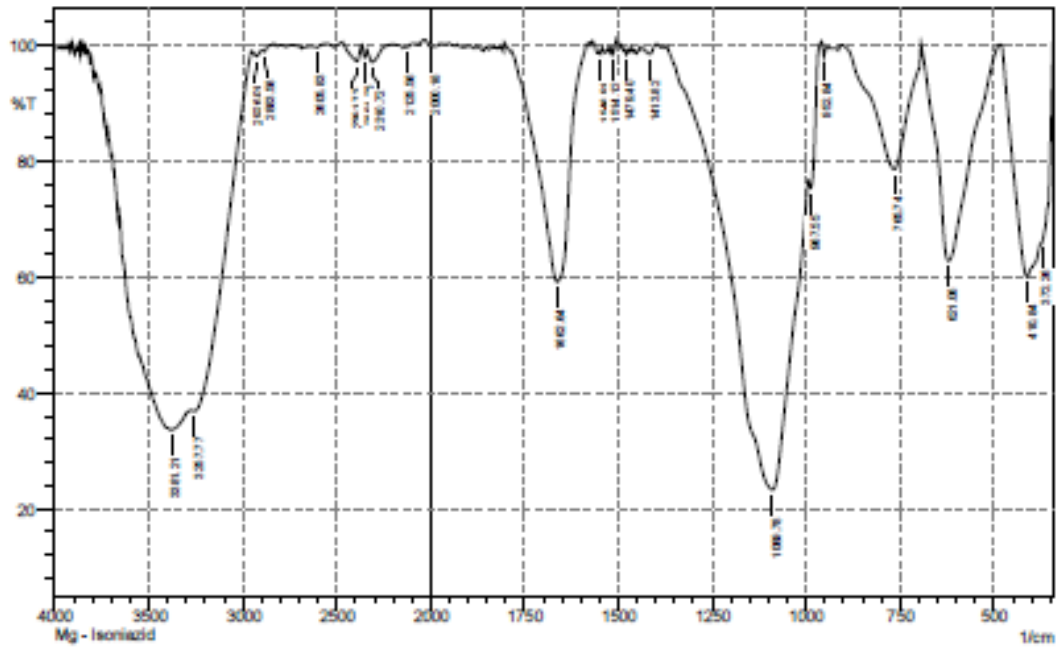

	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	372.26	65.551	2.047	374.19	343.33	3.859	1.084
2	410.84	59.09	16.329	482.2	378.05	15.015	5.267
3	621.08	62.713	36.861	692.44	484.13	18.43	18.133
4	765.74	78.494	21.472	904.61	694.37	10.273	10.227
5	952.84	97.937	2.219	958.62	943.19	0.058	0.06
6	987.55	75.314	5.334	993.34	960.55	2.014	0.415
7	1089.78	23.239	59.122	1371.39	995.27	98.783	76.618
8	1413.82	98.417	0.197	1415.75	1398.39	0.056	0
9	1479.4	98.269	0.883	1483.26	1473.62	0.053	0.016
10	1514.12	98.371	1.381	1517.98	1506.41	0.04	0.039
11	1546.91	98.311	0.804	1550.77	1543.05	0.042	0.012
12	1662.64	59.072	40.619	1784.15	1579.7	19.698	19.307
13	2000.18	99.556	0.907	2029.11	1969.32	0.002	0.119
14	2125.56	99.537	0.171	2135.2	2098.62	0.041	0.015
15	2310.72	96.041	2.343	2337.72	2254.79	0.753	0.521
16	2351.23	97.766	1.775	2366.66	2337.72	0.175	0.12
17	2391.73	97.095	2.99	2468.88	2366.66	0.704	0.789
18	2605.83	99.484	0.324	2628.98	2557.61	0.063	0.026
19	2883.58	98.765	0.604	2900.94	2860.43	0.141	0.042
20	2926.01	97.991	0.959	2954.95	2900.94	0.366	0.116
21	3257.77	36.81	3.166	3273.2	2954.95	72.586	5.362
22	3381.21	33.558	7.049	3550.95	3275.13	118.983	13.336

Comment;
Mg - Isoniazid

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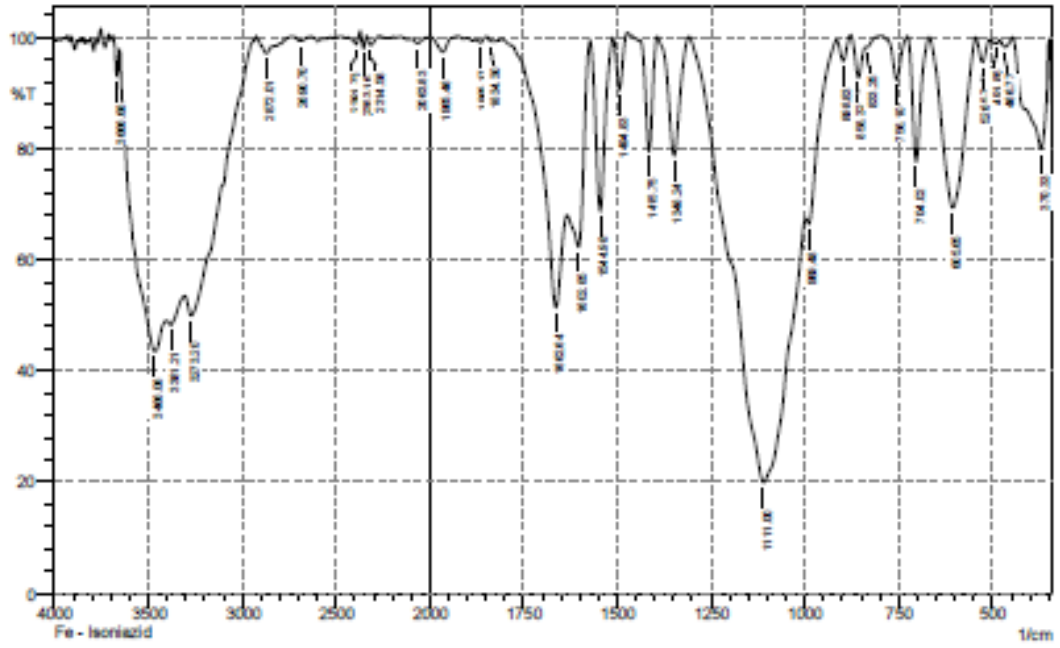
No. of Scans;
Resolution;
Apodization;

Lampiran 14. Data FTIR Senyawa Kompleks Fe-isoniazid



	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	370.33	79.987	19.245	445.56	351.04	5.608	5.415
2	486.77	98.309	1.484	480.28	447.49	0.154	0.128
3	491.85	98.982	0.618	507.28	480.28	0.091	0.044
4	526.57	95.611	4.233	545.85	507.28	0.364	0.338
5	605.65	69.397	30.84	667.37	545.85	9.713	9.732
6	704.02	77.725	22.385	725.23	669.3	2.521	2.546
7	756.1	92.423	7.842	794.87	727.16	0.768	0.846
8	833.25	98.28	0.225	837.11	796.6	0.087	-0.035
9	858.32	92.867	6.508	877.61	839.03	0.639	0.523
10	898.83	95.828	4.124	916.19	877.61	0.324	0.323
11	989.48	66.51	4.014	997.2	916.19	5.998	0.337
12	1111	19.975	59.303	1307.74	999.13	98.728	72.235
13	1348.24	78.776	21.337	1392.61	1309.67	3.398	3.376
14	1415.75	79.609	20.25	1438.9	1394.53	1.911	1.884
15	1494.83	90.666	9.616	1510.28	1475.54	0.696	0.75
16	1544.98	68.858	30.832	1571.99	1512.19	4.183	4.111
17	1602.85	62.354	21.764	1633.71	1573.91	8.39	3.449
18	1662.64	51.466	21.591	1805.37	1635.64	16.921	4.581
19	1834.3	99.376	0.175	1849.73	1830.45	0.028	0.009
20	1865.17	99.103	0.738	1876.74	1849.73	0.054	0.04
21	1965.46	97.388	2.786	1996.32	1924.96	0.265	0.343
22	2063.83	98.957	0.877	2088.91	2027.19	0.166	0.124
23	2314.58	98.638	1.71	2337.72	2270.22	0.151	0.253
24	2353.16	98.075	2.651	2370.51	2337.72	0.089	0.195
25	2391.73	98.85	1.91	2430.31	2370.51	0.089	0.244
26	2690.7	99.421	0.739	2795.06	2632.83	0.077	0.147
27	2872.01	97.181	2.437	2924.09	2792.93	0.919	0.637
28	3273.2	49.96	7.759	3307.92	2926.01	57.09	7.313
29	3381.21	48.279	1.818	3402.43	3309.85	27.543	0.706
30	3466.08	43.58	17.63	3651.25	3404.36	61.624	21.872
31	3666.68	93.084	5.627	3689.83	3653.18	0.592	0.428

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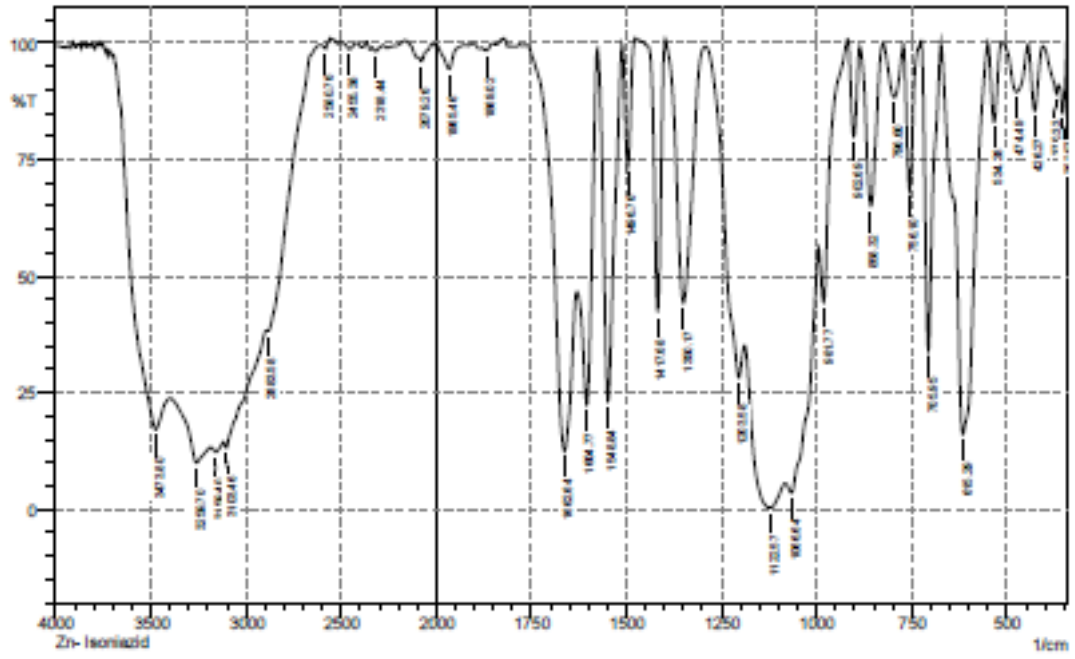
Resolution;
Apodization;

Lampiran 15. Data FTIR Senyawa Kompleks Zn-isoniazid



	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	352.97	84.044	9.384	362.62	343.33	0.943	0.48
2	370.33	89.239	2.869	405.05	364.55	1.128	0.206
3	426.27	85.473	13.989	443.63	406.98	1.305	1.215
4	474.49	89.435	10.343	513.07	445.56	1.749	1.696
5	534.28	83.039	17.037	549.71	514.99	1.342	1.354
6	615.29	16.079	59.924	640.37	551.64	31.69	23.958
7	705.95	34.203	65.536	725.23	675.09	8.989	8.882
8	756.1	68.394	30.879	771.53	732.95	2.846	2.716
9	796.6	88.351	11.392	823.6	773.48	1.611	1.555
10	858.32	65.083	34.252	885.33	825.53	5.049	4.886
11	902.69	80.083	19.916	918.12	887.26	1.463	1.456
12	981.77	44.448	18.084	993.34	920.05	9.123	1.815
13	1066.64	3.534	10.999	1082.07	995.27	74.844	10.624
14	1122.57	0.368	16.114	1188.15	1083.99	155.185	65.332
15	1203.58	28.315	15.424	1290.38	1190.08	25.816	4.637
16	1350.17	44.308	55.553	1396.46	1292.31	14.139	14.043
17	1417.68	42.295	57.903	1442.75	1398.39	6.185	6.198
18	1498.76	73.353	26.627	1510.28	1477.47	2.023	2.049
19	1548.84	23.236	75.895	1575.84	1512.19	15.568	15.354
20	1604.77	22.454	49.043	1629.85	1577.77	18.983	10.469
21	1662.64	12.49	46.681	1761.01	1631.78	40.271	20.327
22	1869.02	98.347	1.042	1880.6	1853.59	0.134	0.071
23	1965.46	94.395	5.064	1998.25	1928.82	0.761	0.619
24	2079.26	98.094	1.574	2098.62	2021.4	0.724	0.218
25	2318.44	98.204	0.986	2337.72	2279.86	0.309	0.122
26	2455.38	98.631	1.344	2492.03	2418.74	0.202	0.194
27	2580.76	98.787	1.493	2605.83	2557.61	0.09	0.141
28	2883.58	98.256	1.727	2891.3	2605.83	45.802	0.613
29	3103.46	13.202	2.766	3116.97	2893.22	138.562	1.371
30	3159.4	12.302	1.454	3184.48	3118.9	57.961	1.78
31	3259.7	10.021	6.913	3398.57	3186.4	171.888	13.038
32	3473.8	17.123	24.541	9858.96	3400.5	131.01	42.009

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No. of Scans;
Resolution;

Lampiran 16. Data Hasil Uji Tuberkulosis

DMSO (Kontrol Negatif) 10 ppm 100 ppm 100 ppm

Hasil Uji Tuberkulosis Senyawa Kompleks Mg-isoniazid

10 ppm 100 ppm 1000 ppm

Hasil Uji Tuberkulosis Senyawa Kompleks Fe-isoniazid

10 ppm 100 oom 1000 ppm

Hasil Uji Tuberkulosis Senyawa Kompleks Zn-isoniazid

10 ppm 100 ppm 1000 ppm

Data Hasil Uji Tuberkulosis Senyawa Isoniazid

Lampiran 17. Dokumentasi Proses Penelitian

(Zn-isoniazid)

(Fe-isoniazid)

` (Mg-isoniazid)

Proses Sintesis Senyawa Kompleks

(Mg-isoniazid)

(Zn-isoniazid)

(Fe-isoniazid)

Proses Penyaringan