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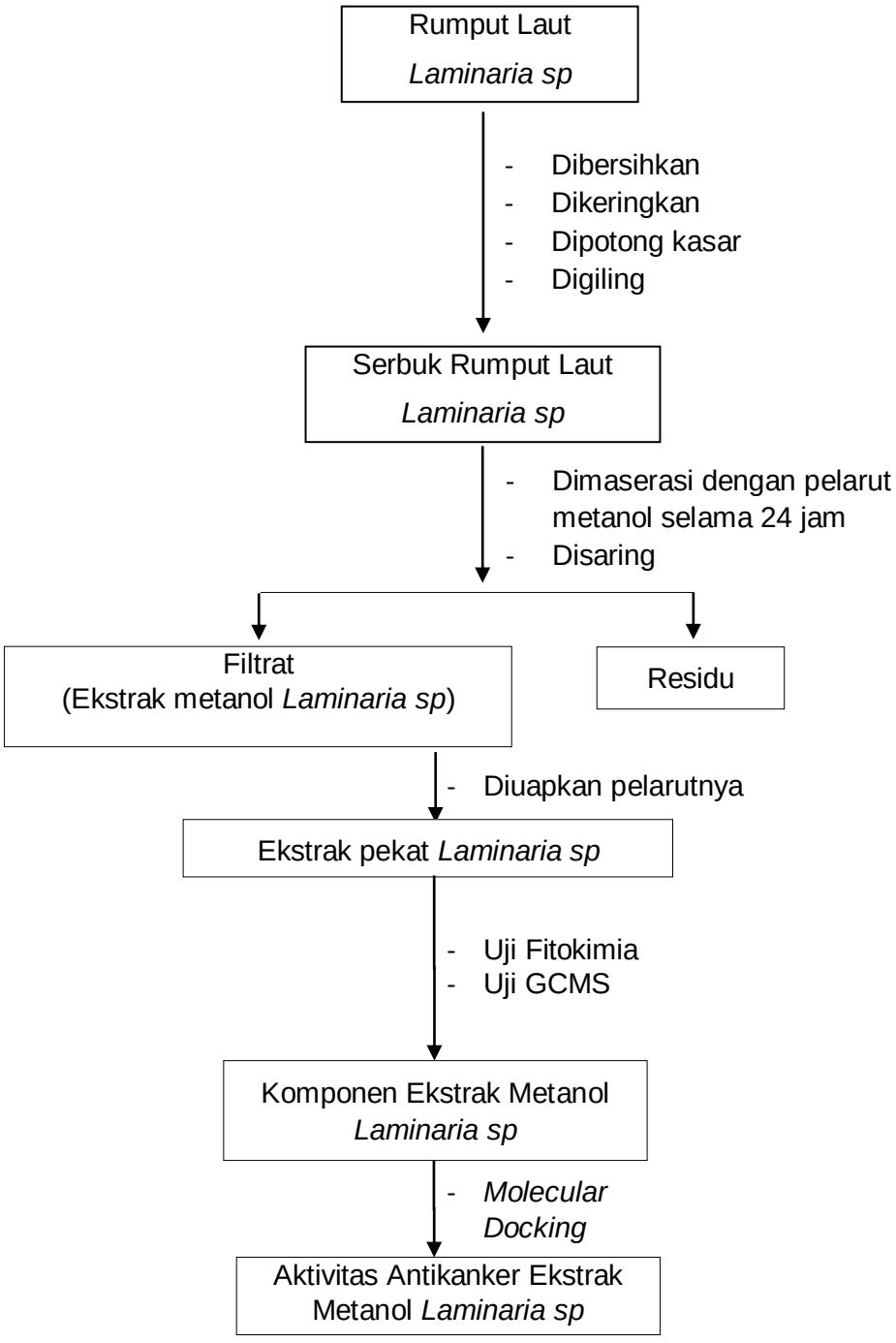
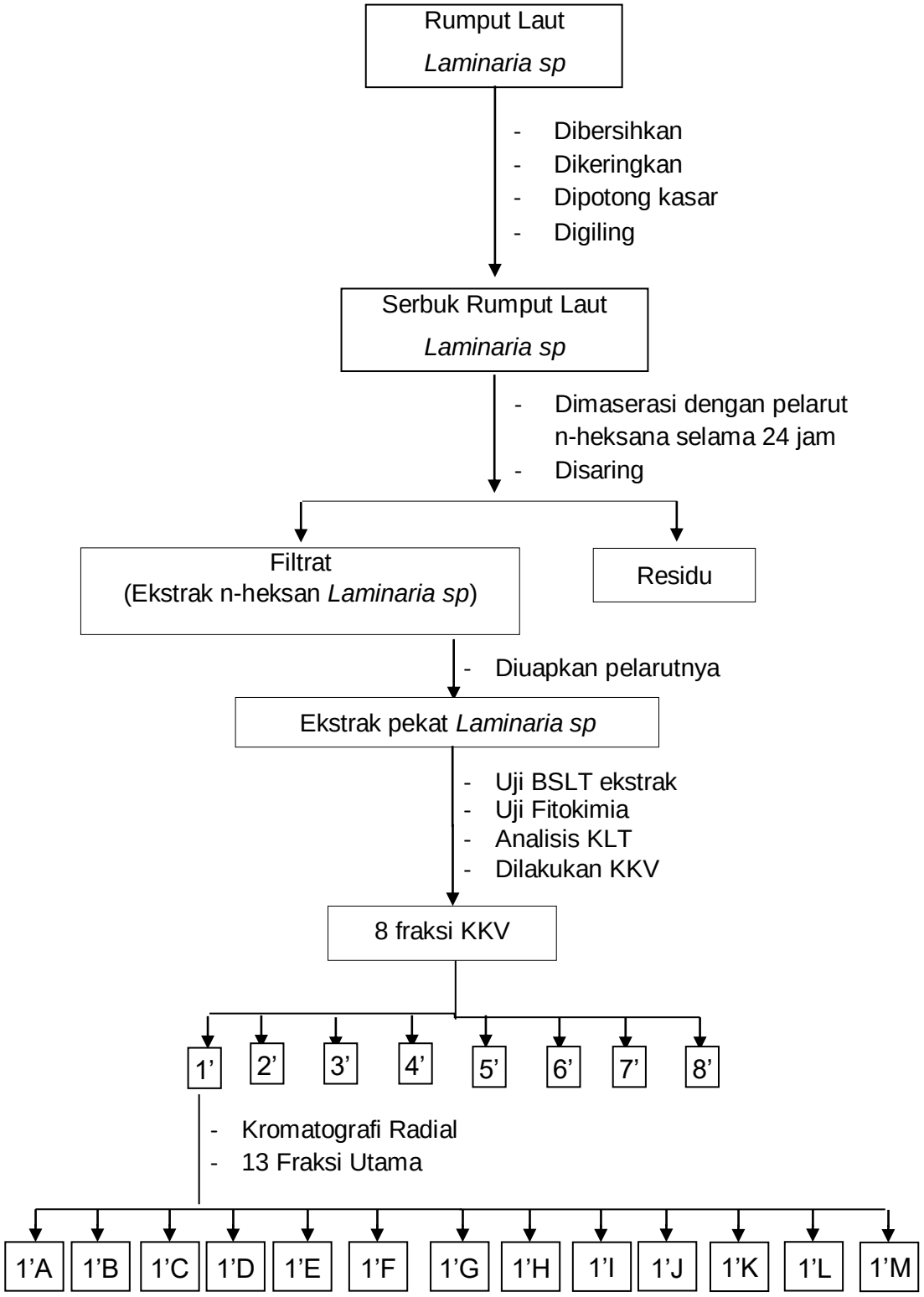
LAMPIRAN

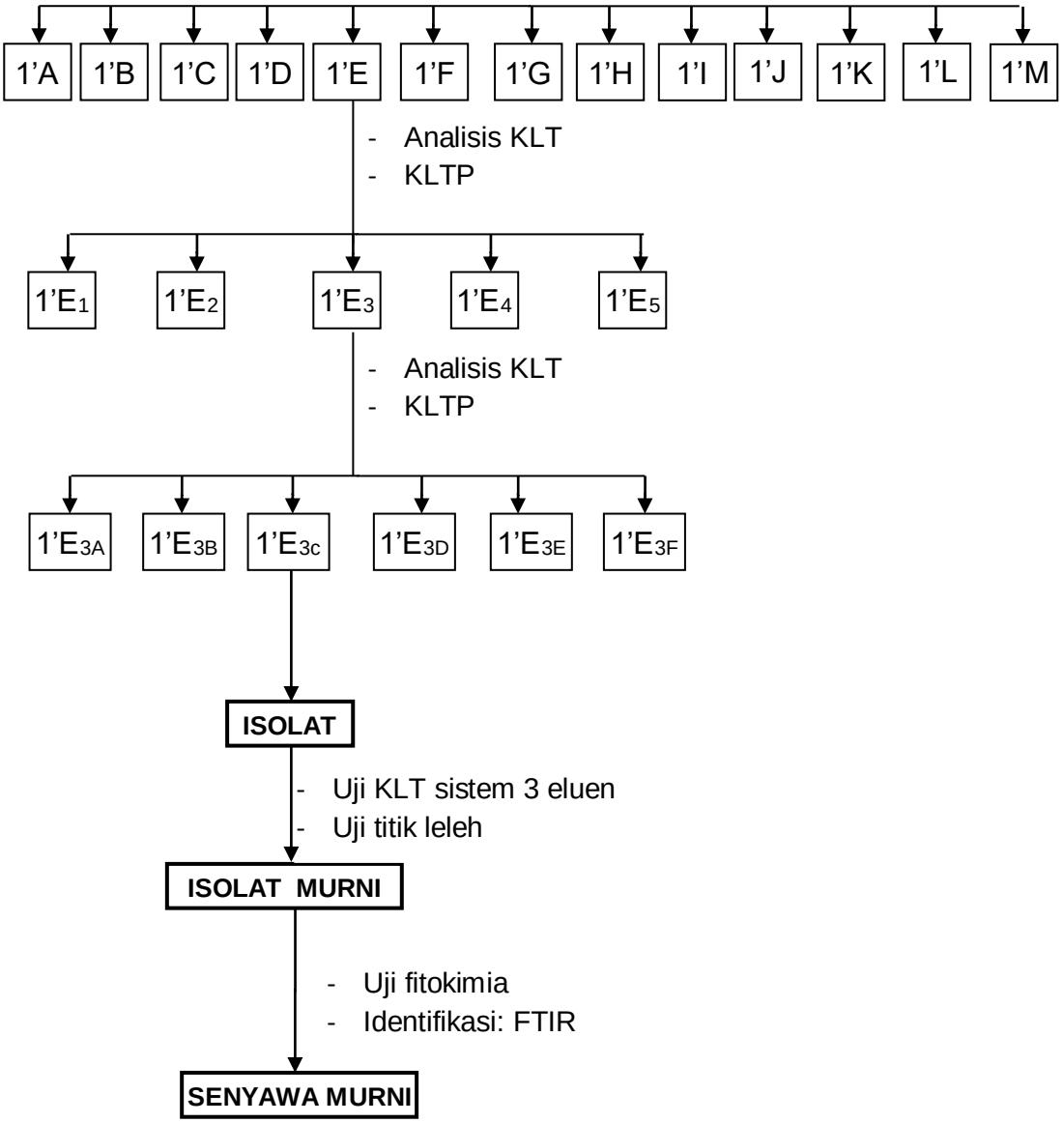
Lampiran 1. Bagan Kerja Penelitian

1.1 Bagan Kerja Identifikasi Komponen dan Uji Aktivitas Antikanker Ekstrak Metanol *Laminaria sp* secara *in Silico.*



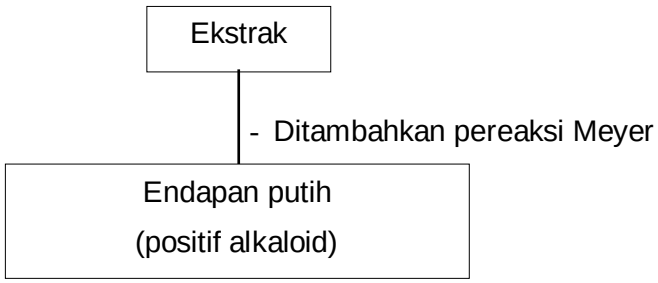
1.2 Bagan Kerja isolasi senyawa metabolit sekunder dari ekstrak n-heksan rumput laut *Laminaria sp*



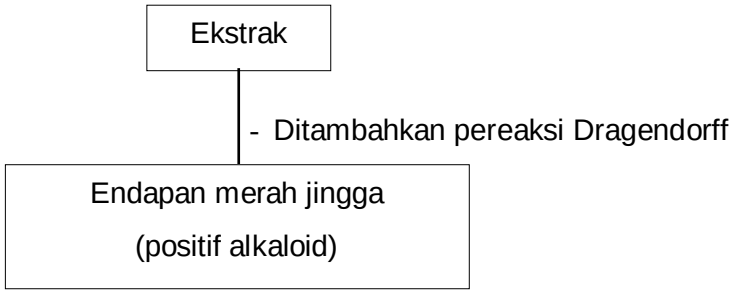

1'A
1'B
1'C
1'D
1'E
1'F
1'G
1'H
1'I
1'J
1'K
1'L
1'M
- Analisis KLT
- KLTP
1'E1
1'E2
1'E3
1'E4
1'E5
- Analisis KLT
- KLTP
1'E3A
1'E3B
1'E3c
1'E3D
1'E3E
1'E3F
ISOLAT
- Uji KLT sistem 3 eluen
- Uji titik leleh
ISOLAT MURNI
- Uji fitokimia
- Identifikasi: FTIR
SENYAWA MURNI

Lampiran 2. Uji Fitokimia Ekstrak Metanol dan N-heksan *Laminaria sp*

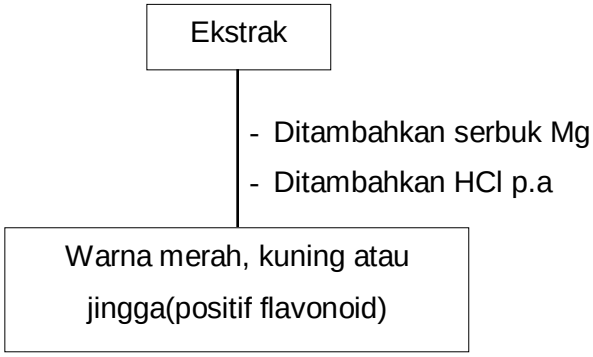
2.1. Uji Alkaloid (Pereaksi Meyer)



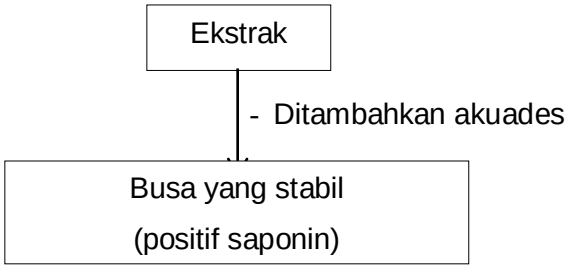
2.2. Uji Alkaloid (Pereaksi Dragendorff)



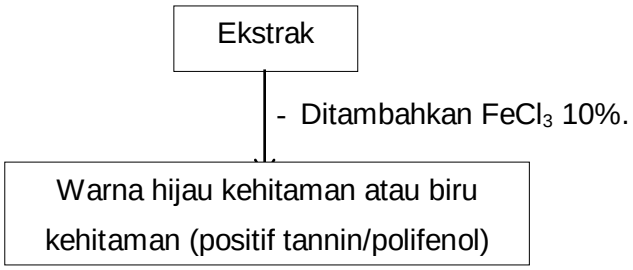
2.3. Uji Flavonoid



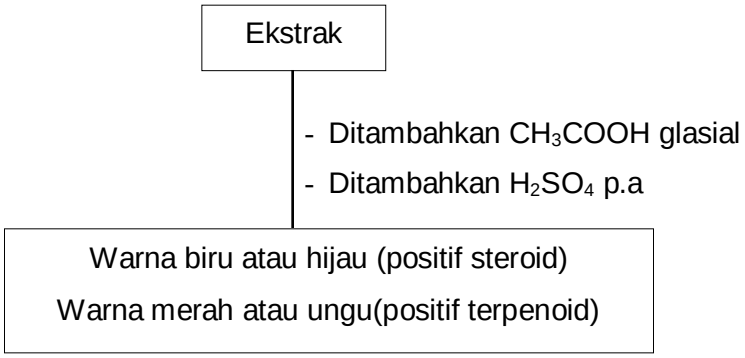
2.4. Uji Saponin



2.5. Uji Tanin/polifenol

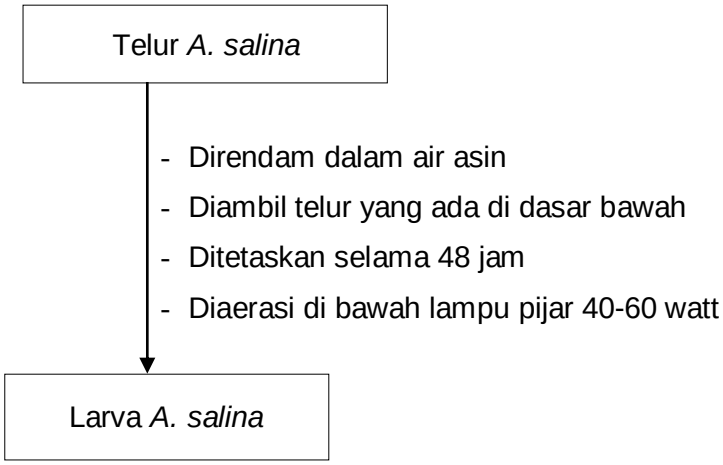


2.6. Uji Steroid/terpenoid

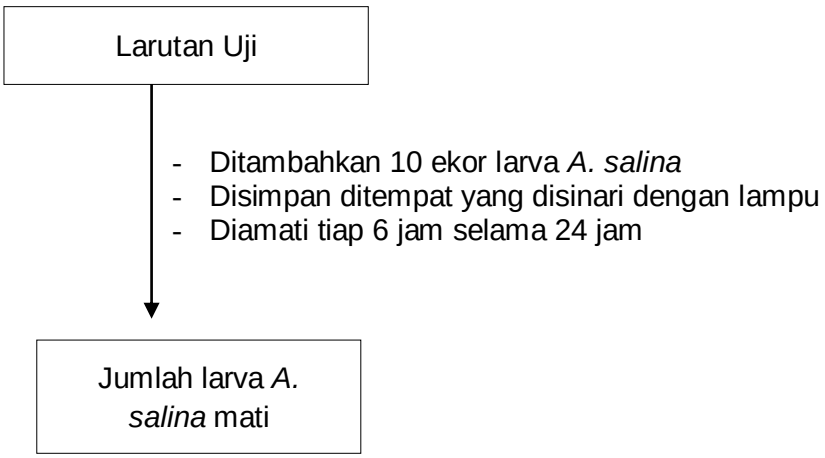


Lampiran 3. Pengujian Toksisitas dengan BSLT

3.1. Penetasan telur *A. salina*



3.2. Pengujian toksisitas

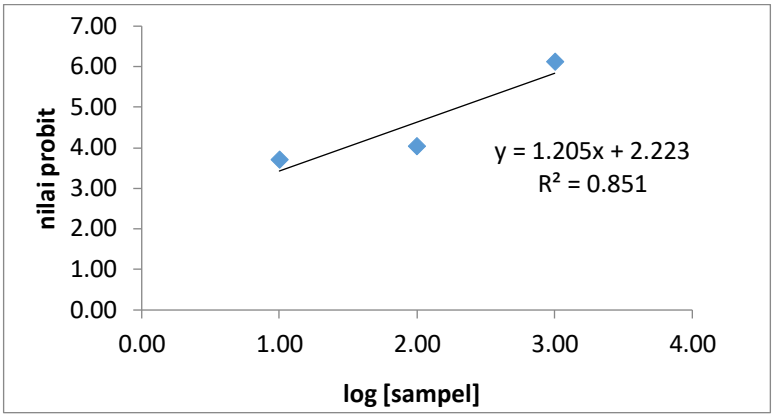


***Catatan:** kontrol untuk setiap konsentrasi larutan uji disiapkan menggunakan air laut dan pelarut DMSO dengan perlakuan yang sama dengan sampel.

Lampiran 4. Perhitungan nilai LC_{50} dengan metode BSLT

Tabel 1. Nilai Probit untuk Setiap % Kematian Akhir

Konsentrasi (ppm)	Log konsentrasi	% kematian akhir	Nilai probit
10	1,00	10	3,72
100	2,00	17	4,05
1000	3,00	87	6,13



Grafik hubungan antara log [sampel] (x) dan nilai probit (y)

Dari grafik diperoleh persamaan y = 1,205x + 2,223, jika y = 5 dan nilai LC_{50} = x maka:

y - 2,223/1,205= x

5 - 2,223/1,205= 2,304

Jadi log x = 2,304

x = antilog 2,304

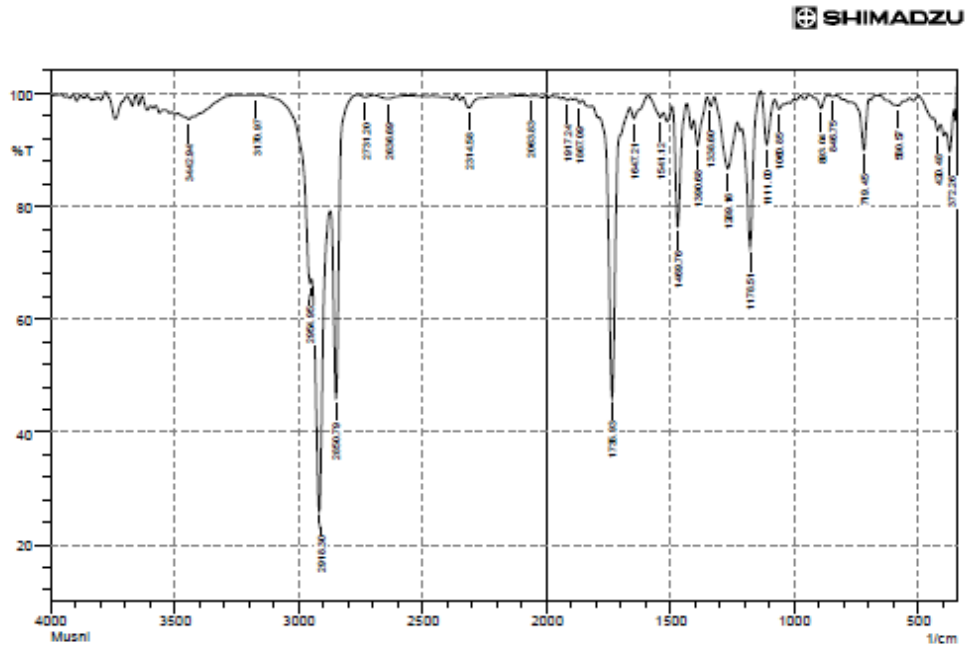
x = 201,3724 ppm

Karena x = LC_{50}, maka:

LC_{50} = x

LC_{50} = 201,3724 ppm

Lampiran 5. Spektrum FTIR



No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	372.26	89.718	5.21	387.69	356.83	1.06	0.377
2	420.48	93.375	1.581	437.84	406.91	0.727	0.093
3	580.57	97.826	0.892	621.08	557.43	0.504	0.15
4	719.45	89.997	8.886	771.53	698.23	1.328	0.935
5	846.75	99.461	0.195	862.18	829.39	0.063	0.014
6	893.04	97.351	2.009	914.26	862.18	0.311	0.177
7	1060.85	97.181	1.298	1080.14	1043.49	0.338	0.098
8	1111	90.956	8.771	1136.07	1080.14	1.085	0.993
9	1178.51	72.699	24.009	1211.3	1138	4.108	3.166
10	1269.16	86.658	10.092	1323.17	1230.58	3.335	2.133
11	1338.6	97.717	1.637	1352.1	1323.17	0.184	0.103
12	1390.68	90.73	5.457	1404.18	1352.1	1.225	0.597
13	1469.76	76.373	21.411	1490.97	1435.04	2.872	2.35
14	1541.12	95.735	1.55	1587.42	1527.62	0.701	0.221
15	1647.21	95.54	1.756	1664.57	1627.92	0.573	0.135
16	1735.93	46.177	50.271	1786.08	1664.57	10.475	8.654
17	1867.09	98.247	0.653	1882.52	1855.52	0.16	0.033
18	1917.24	98.735	0.449	1932.67	1901.81	0.138	0.028
19	2063.63	99.454	0.118	2081.19	2050.33	0.064	0.007
20	2314.58	97.464	1.845	2337.72	2264.43	0.488	0.257
21	2636.69	99.08	0.567	2696.48	2574.97	0.336	0.149
22	2731.2	99.32	0.413	2762.06	2696.48	0.129	0.052
23	2850.79	45.954	37.195	2872.01	2763.99	8.476	4.564
24	2918.3	25.991	45.807	2947.23	2873.94	20.495	10.48
25	2954.95	66.397	1.564	3155.54	2949.16	6.644	0.069
26	3170.97	99.709	0.019	3188.33	3157.47	0.038	0.001
27	3442.94	95.404	0.651	3489.23	3427.51	1.133	0.09

Lampiran 6. Dokumentasi Penelitian

Sampel *Laminaria sp*

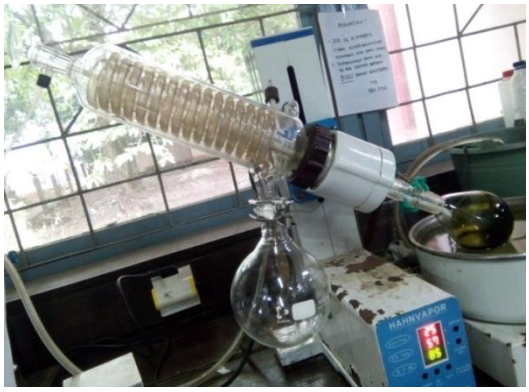
Pengeringan sampel *Laminaria sp*

Serbuk *Laminaria sp*

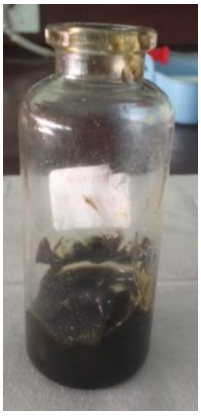
Proses maserasi

Penyaringan hasil maserasi *Laminaria sp*

Maserat n-heksan

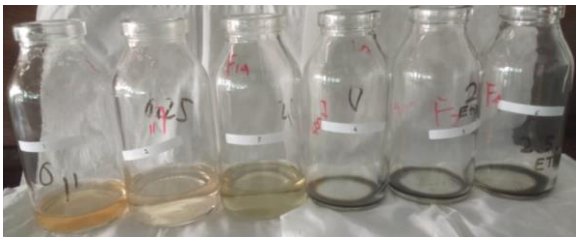


Proses Evaporasi

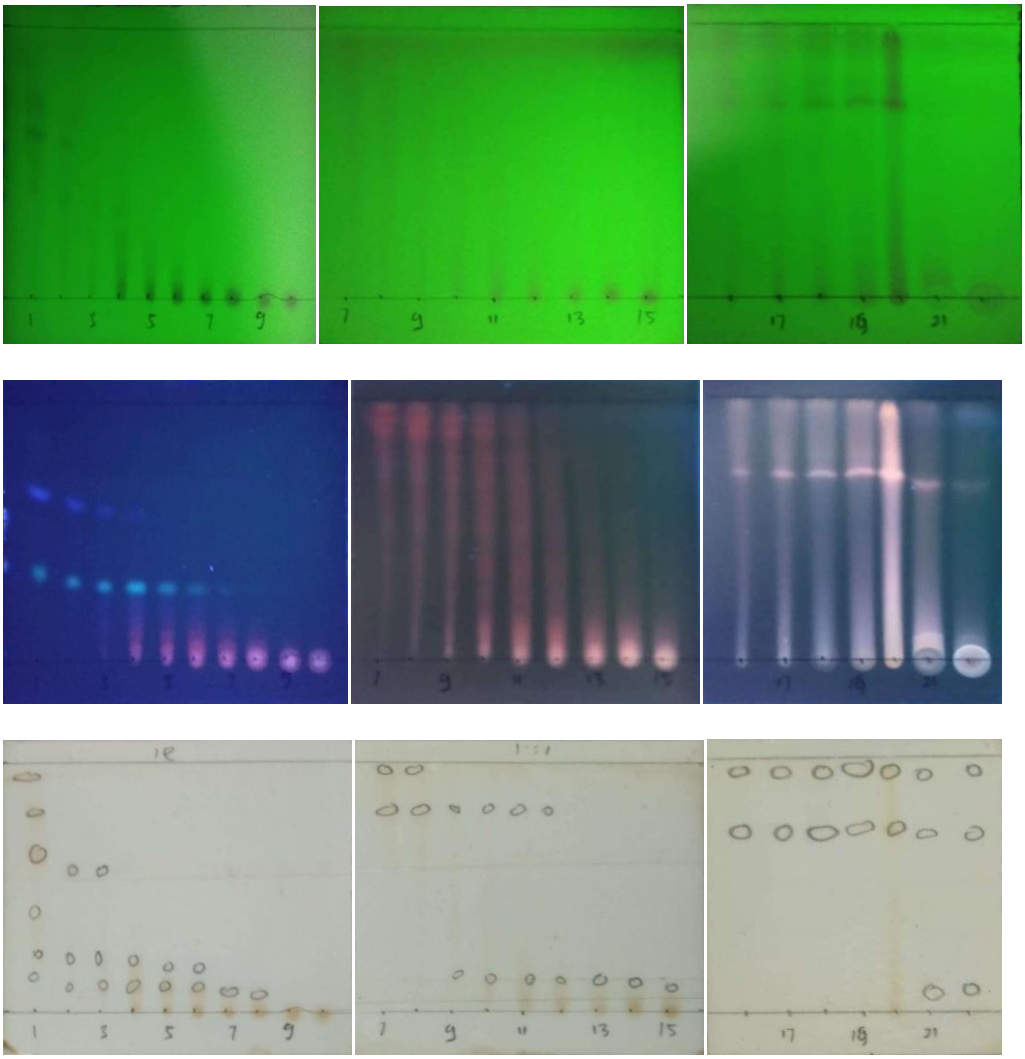


Ekstrak n-heksan *Lamiaria sp*

Proses Fraksinasi metode KKV

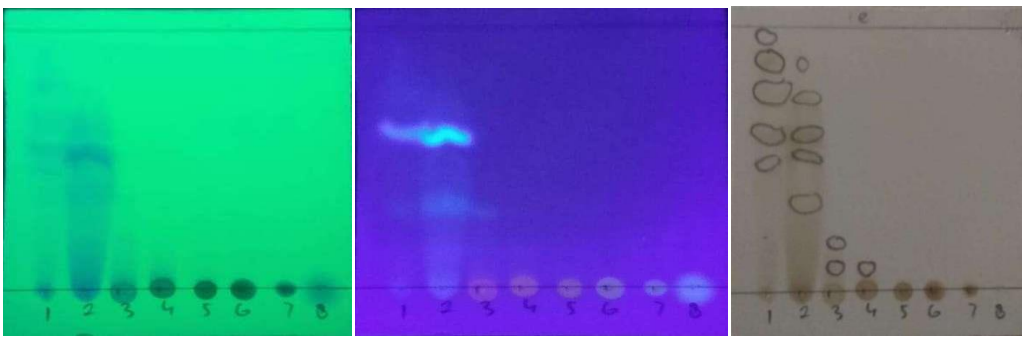


Fraksi-fraksi hasil KKV



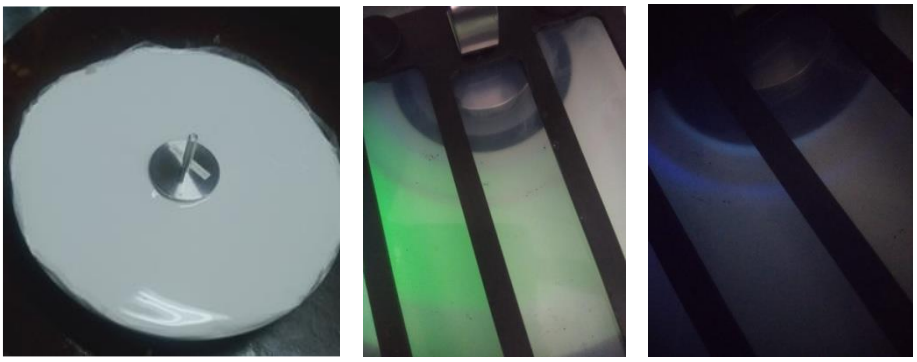
1 etil asetat : 9 N-Heksan 1 etil asetat : 1 N-Heksan etil asetat 100%

Hasil analisis KLT fraksi KKV



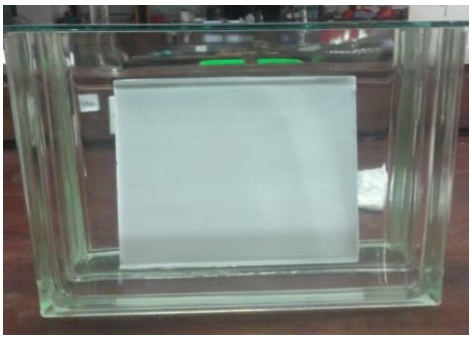
1 etil asetat : 9 N-Heksan

Hasil analisis KLT fraksi gabungan KKV



Proses Fraksinasi menggunakan Kromatotron

Hasil analisis KLT fraksi kromatotron dengan eluen 0,5 etil asetat : 9,5 N-Heksan



Proses KLTP