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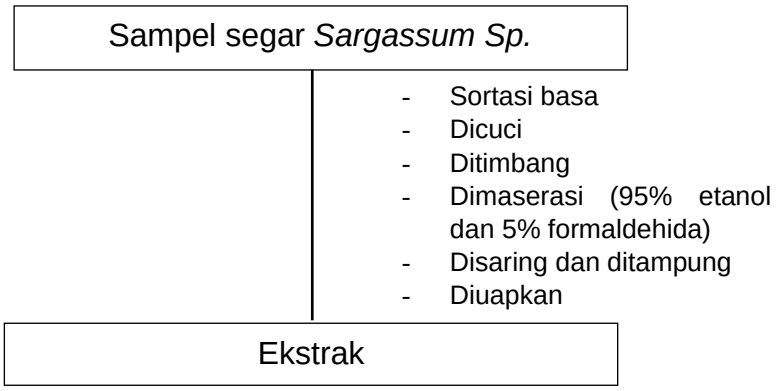
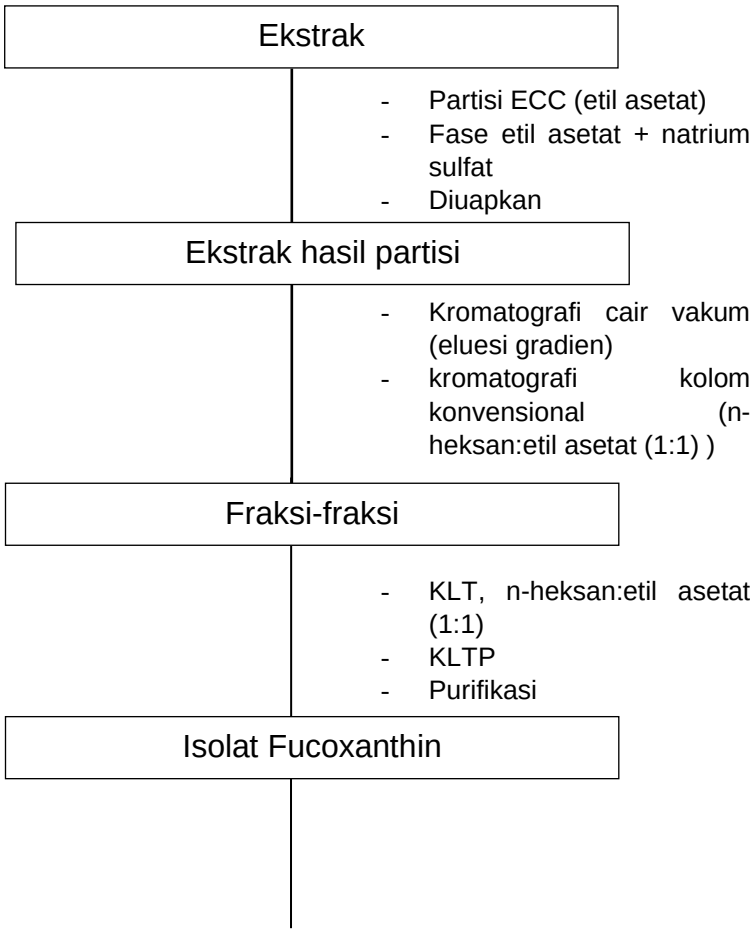
LAMPIRAN

Lampiran 1. Skema Kerja

1. Ekstraksi Sampel



2. Isolasi Senyawa



- Karakterisasi dengan UV-Vis dan FTIR

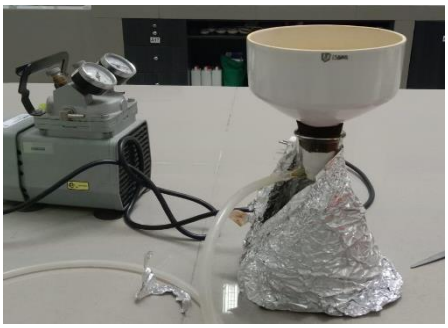
Lampiran 2. Dokume

Pengolahan data dan penarikan kesimpulan

Gambar 18. Sampel *Sargassum Sp.*

Gambar 19. Penimbangan sampel

Gambar 20. Maserasi



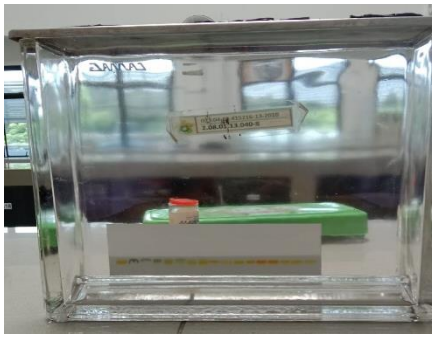
Gambar 21. Penyaringan ekstrak

Gambar 22. Penguapan ekstrak

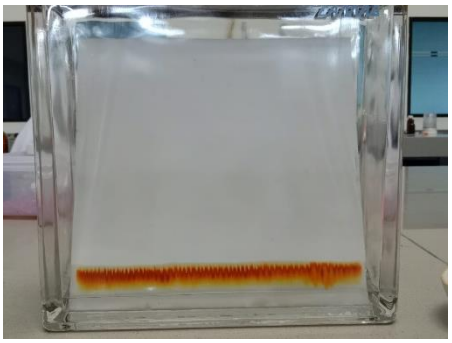
Gambar 23. Fraksinasi KCV

Gambar 24. Partisi Esktrak

Gambar 25. Fraksinasi KK



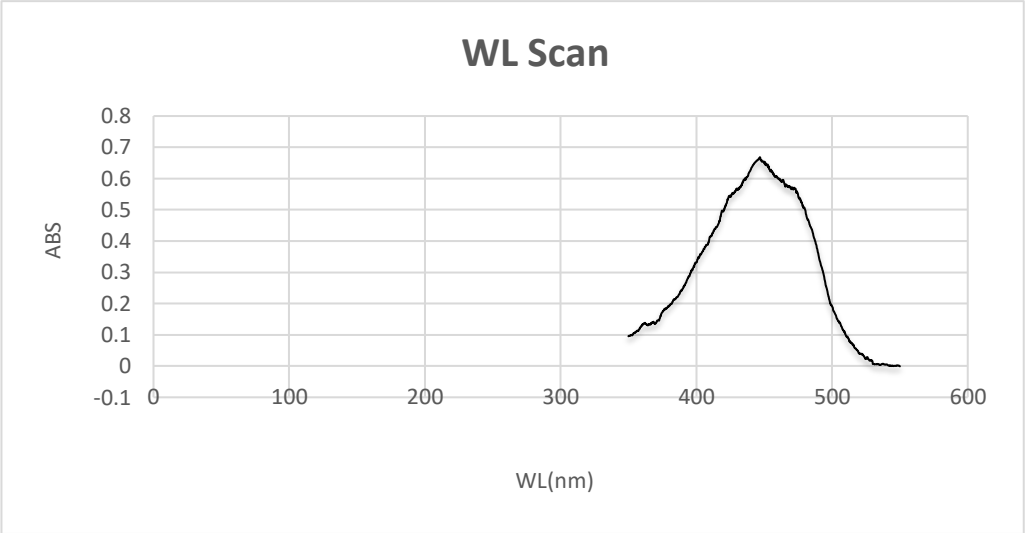
Gambar 26. Identifikasi KLT



Gambar 27. Isolasi dengan KLTP

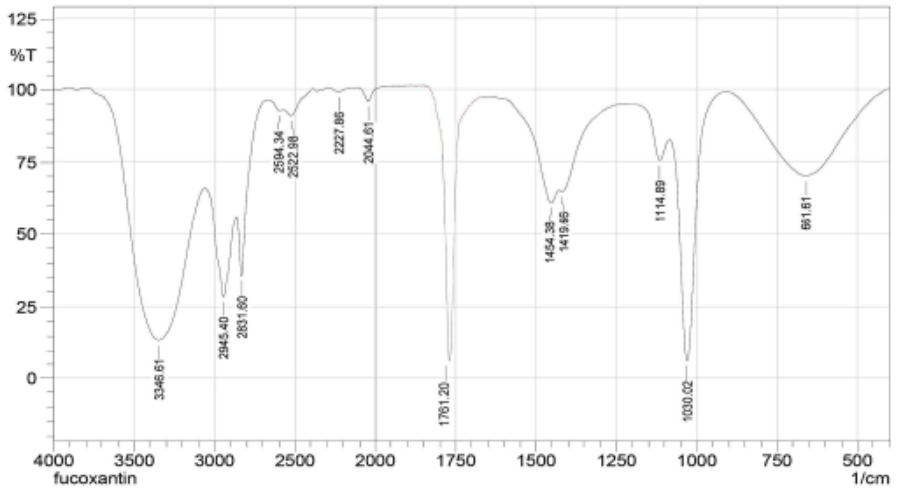
Gambar 28. Karakterisasi Spektrofotometri UV -Vis

Lampiran 3. Hasil Karakterisasi Spektrofotometri UV-Vis



WL (nm)	Value
446.2	0.6646
446.6	0.6669
447.0	0.6681
447.4	0.6585
448.0	0.6597

Lampiran 4. Hasil Karakterisasi Spektroskopi FTIR



	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	661.61	70.429	29.129	908.5	403.14	36.97	36.017
2	1030.02	5.878	81.923	1084.03	908.5	44.368	36.819
3	1114.89	75.702	10.549	1190.12	1084.03	7.014	1.409
4	1419.66	64.92	1.919	1429.3	1232.55	15.157	-5.274
5	1454.38	61.135	8.93	1597.11	1429.3	16.309	-0.416
6	1761.20	4.212	80.78	1802.63	1701.9	40.110	30.225
7	2044.61	95.821	4.964	2114.05	1961.67	0.626	1.158
8	2227.86	99.103	1.436	2291.51	2114.05	0.025	0.438
9	2522.98	90.927	3.963	2573.13	2386.02	4.149	1.253
10	2594.34	92.635	1.099	2665.71	2573.13	2.364	0.149
11	2831.6	35.47	27.061	2862.46	2665.71	28.685	2.509
12	2945.4	28.427	31.915	3061.13	2862.46	66.942	24.228
13	3346.61	13.616	66.248	3730.45	3061.13	270.224	207.659

LABORATORIUM ILMU LINGKUNGAN DAN KELAUTAN
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FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS HASANUDDIN, KAMPUS TAMALANREA
JL. PERINTIS KEMERDEKAAN KM.10, MAKASSAR

No : 062/II.K.BIO/PP.13/10/2021
Hal : Identifikasi Algae
Lamp : 1 Lembar

SURAT KETERANGAN

Yang bertanda tangan dibawah ini, menerangkan bahwa setelah mengkaji karakter sampel ganggang algae dan identifikasi maka terdapat tiga spesies yaitu :

Alga Coklat (Phaeophyta)
Sampel : Terima tanggal 06/10/2022
Kondisi sampel : lembab

1. Jenis : *Sargassum polycystum* C. Agardh
   Diskripsio : Tanaman cukup besar, panjangnya antara 10-40 cm. Alga berwarna coklat, melekat pada substrat keras. Stipula silindris, kaku, dapat tegak sepanjang thallus. Cabang utama kaku mengeluarkan cabang sekunder tumbuh selang-seling dan pada cabang ini terdapat daun , thallus bercabang berbentuk lembaran seperti daun bergelombang, tepi daun bergerigi tidak beraturan, dengan permukaan licin dan agak kaku, dari nudus terdapat bulatan-bulatan banyak menyerupai buah. Tangkai vesikula oval, melekat banyak pada cabang tertier, tunggal atau bergerombol.

2. Jenis : *Sargassum sp.*
   Diskripsio : Tanaman besar, panjang antara 20-40 cm, berwarna coklat. Bentuk daun besar, oval, dengan tepi bergerigi atau berombak dan ujung agak meruncing. Permukaan licin. Thallus silindris. Tidak memiliki organ pelekat (*holdfast*).

3. Jenis : *Padina australis* Hauch, 1887
   Diskripsio : Thallus terdiri dari beberapa helaian bentuk kipas/filament berwarna coklat. Ukuran filament ini sedikit lebih besar dibandingkan jenis lain dari *Padina*. Tepi luar filament menebal dan permukaan atas filament mempunyai garis konsentris warna putih. Organ pelekat (*holdfast*) bentuk discoid.

Makassar, 10 Oktober 2022
Kepala Laboratorium II.K.

LABORATORIUM ILMU LINGKUNGAN DAN KELAUTAN BIOLOGI FMIPA UNHAS

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Tembusan :
1. Arsip

LABORATORIUM ILMU LINGKUNGAN DAN KELAUTAN
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UNIVERSITAS HASANUDDIN, KAMPUS TAMALANREA
JL. PERINTIS KEMERDEKAAN KM.10, MAKASSAR

Lampiran

Gambar 1. *Sargassum polycystum* C. Agardh

Gambar 2. *Sargassum sp.*