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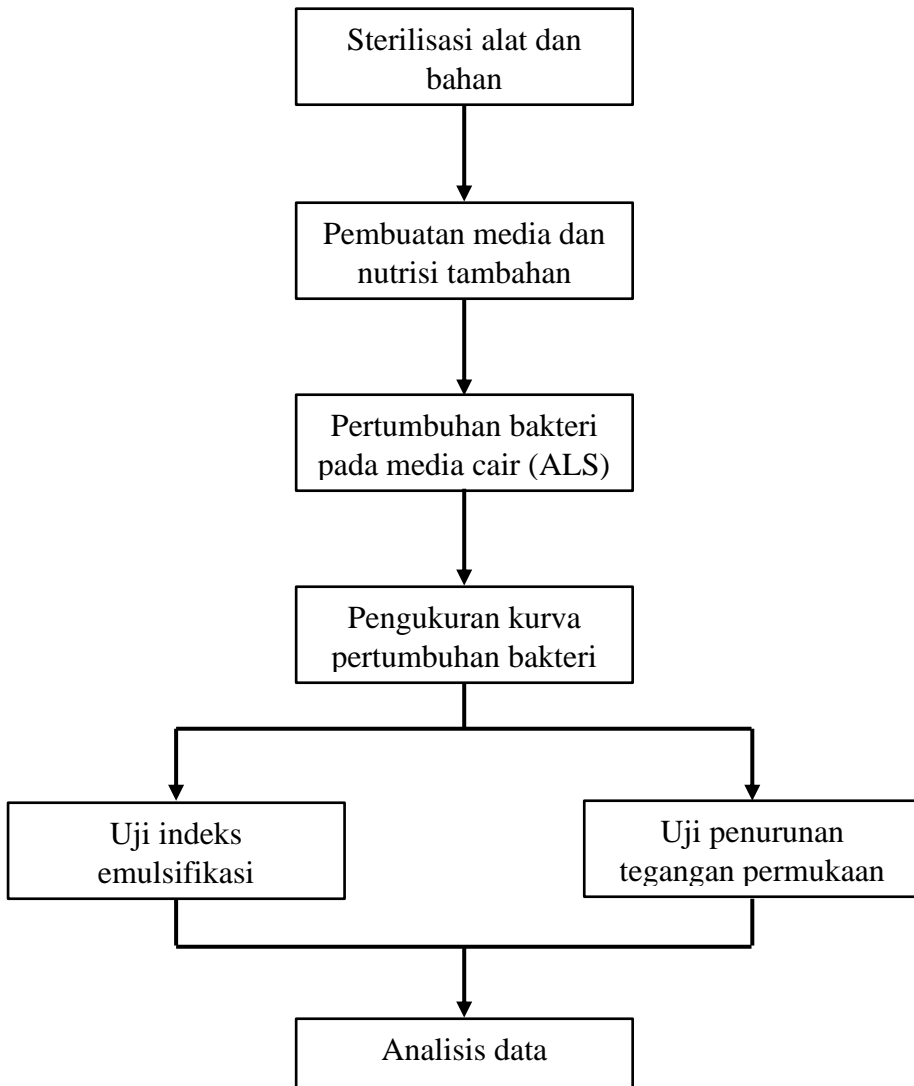
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LAMPIRAN



Optimization Software:
www.balesio.com

Lampiran 1. Alur Penelitian

Lampiran 2. Pembuatan Media dan Nutrisi Tambahan



Disiapkan alat dan bahan yang akan digunakan



Ditimbang setiap bahan dan dilarutkan ke dalam akuades



ke dalam erlenmeyer dan disterilisasi menggunakan autoklaf

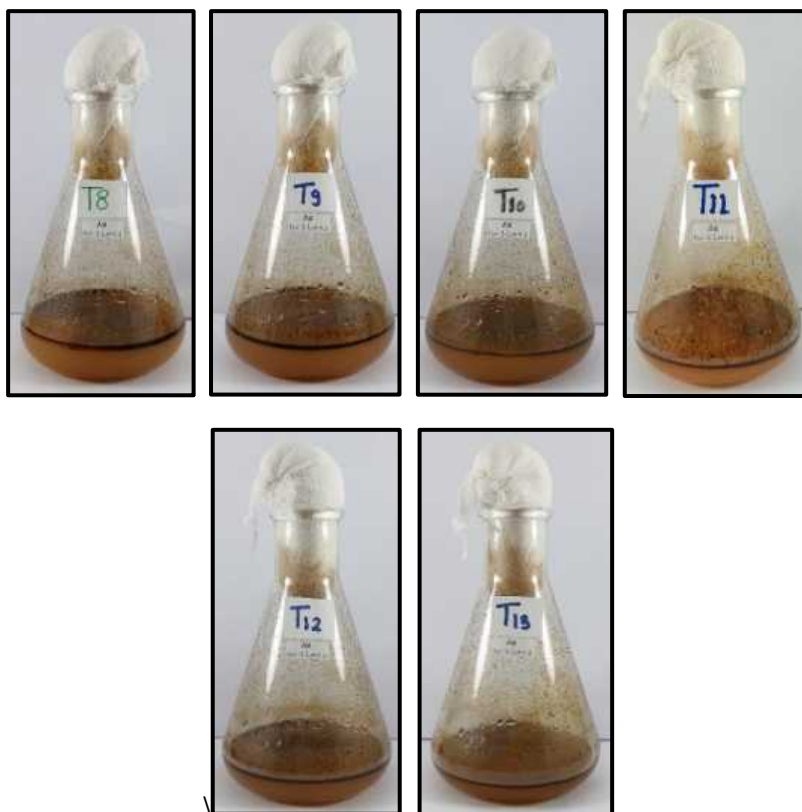


Lampiran 3. Pertumbuhan Bakteri pada Media Cair (ALS)

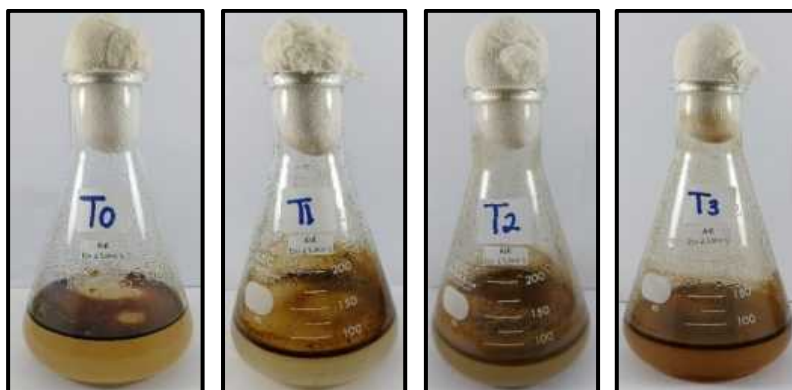


Isolat bakteri ditumbuhkan di media cair (ALS)

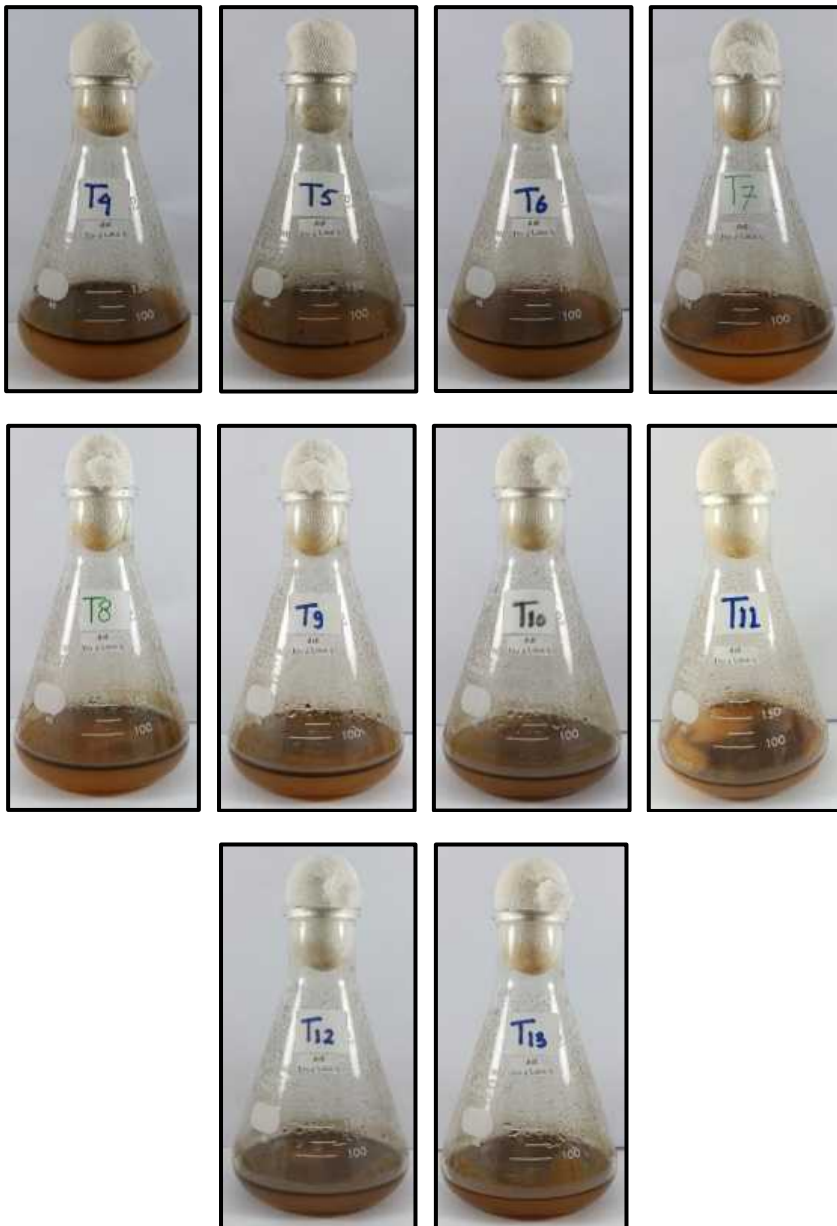




Pertumbuhan kultur bakteri KA1 pada media ALS



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Pertumbuhan kultur bakteri KA2 pada media ALS



Lampiran 4. Pengukuran Kurva Pertumbuhan, Indeks Emulsifikasi, dan Penurunan Tegangan Permukaan



Pengukuran kurva pertumbuhan menggunakan spektrofotometer



Campuran kultur dan petroleum dihomogenkan dengan sentrifuge, dan diukur indeks emulsifikasinya setelah 1x24 jam





Pengukuran tegangan permukaan menggunakan tensiometer Du Nouy



Lampiran 5. Tabel Data Kurva Pertumbuhan, Hasil Uji Indeks Emulsifikasi, dan Hasil Uji Penurunan Tegangan Permukaan

Data Pengukuran Kurva Pertumbuhan

Waktu Inkubasi (hari)	Kultur Bakteri KA1		Kultur Bakteri KA2	
	Nilai %T	Nilai OD	Nilai %T	Nilai OD
T0	79	0,10	80	0,10
T1	67	0,17	69	0,16
T2	58	0,23	50	0,30
T3	25	0,60	42	0,37
T4	15	0,82	31	0,50
T5	2	1,70	19	0,72
T6	5	1,30	2	1,70
T7	2	1,70	3	1,52
T8	2	1,70	1	2
T9	2	1,70	1	2
T10	2	1,70	1	2
T11	2	1,70	1	2
T12	2	1,70	1	2
T13	2	1,70	1	2

Nilai Indeks Emulsifikasi

Isolat	Waktu Inkubasi (hari)	Tinggi Emulsi (cm)	Tinggi Total Larutan (cm)	Indeks Emulsifikasi (%EI)
KA1	T1	2,3	3,3	69,70%
	T3	2,1	3,3	63,63%
	T5	2,4	3,6	66,66%
	T7	2,8	3,5	80%
	T9	2,3	3,3	69,70%
	T11	1,4	3,4	41,17%
	T13	2,6	3,5	74,28%
	T15	1,8	3,4	52,94%



Nilai penurunan tegangan permukaan Sodium Lauryl Sulfate (SLS)

Surfaktan Sintetik	Konsentrasi		
	2 mL	4 mL	6 mL
SLS	58,2 dyne/cm	56,3 dyne/cm	55,2 dyne/cm

Nilai penurunan tegangan permukaan isolat bakteri

Isolat	Waktu Inkubasi (hari)	Konsentrasi		
		2 mL	4 mL	6 mL
KA1	T1	4,4 dyne/cm	9,1 dyne/cm	13,2 dyne/cm
	T3	4,6 dyne/cm	9,6 dyne/cm	14,1 dyne/cm
	T5	16,8 dyne/cm	19,4 dyne/cm	26,8 dyne/cm
	T9	16,3 dyne/cm	20,6 dyne/cm	27,4 dyne/cm
KA2	T1	7,4 dyne/cm	8,2 dyne/cm	10,3 dyne/cm
	T4	10,8 dyne/cm	15,8 dyne/cm	18,8 dyne/cm
	T6	20,2 dyne/cm	22,2 dyne/cm	28,1 dyne/cm
	T10	13,7 dyne/cm	18,7 dyne/cm	27,9 dyne/cm

