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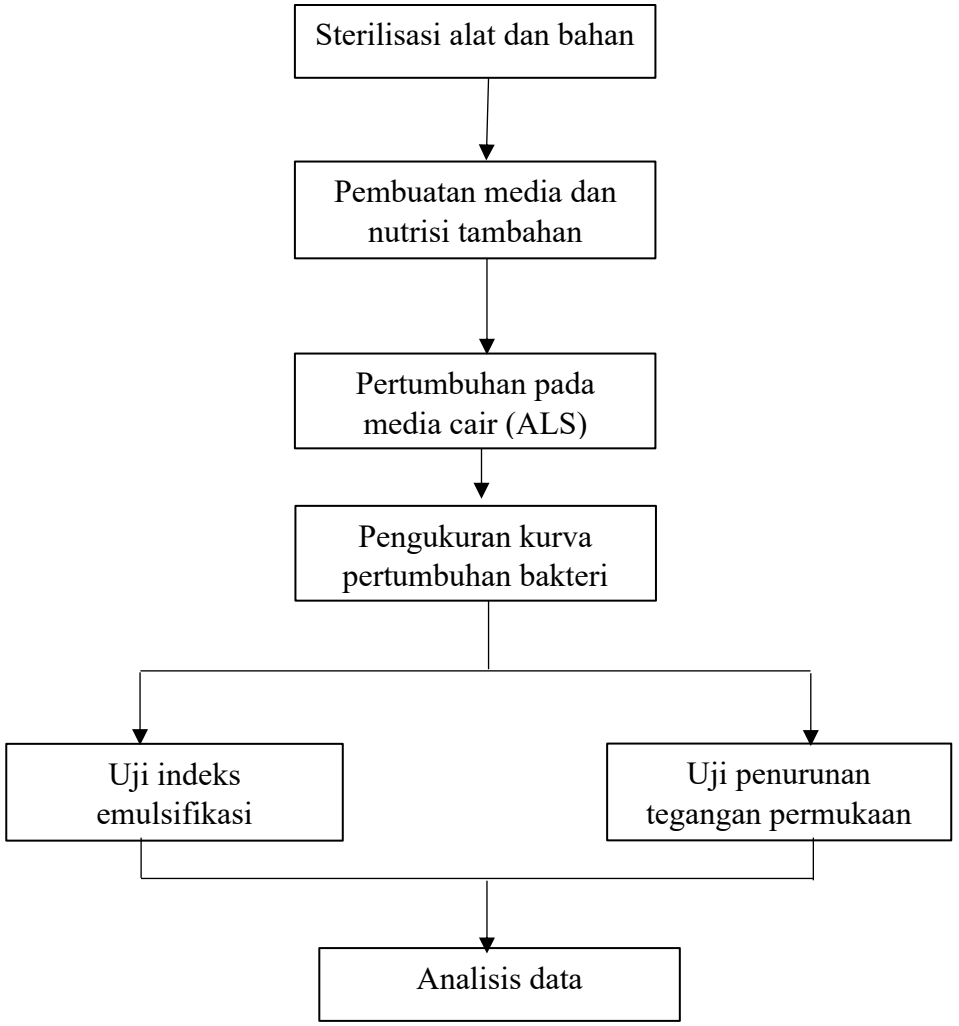
LAMPIRAN

Lampiran 1. Alur Penelitian



Lampiran 2. Proses Pembuatan Media dan Nutrisi Tambahan

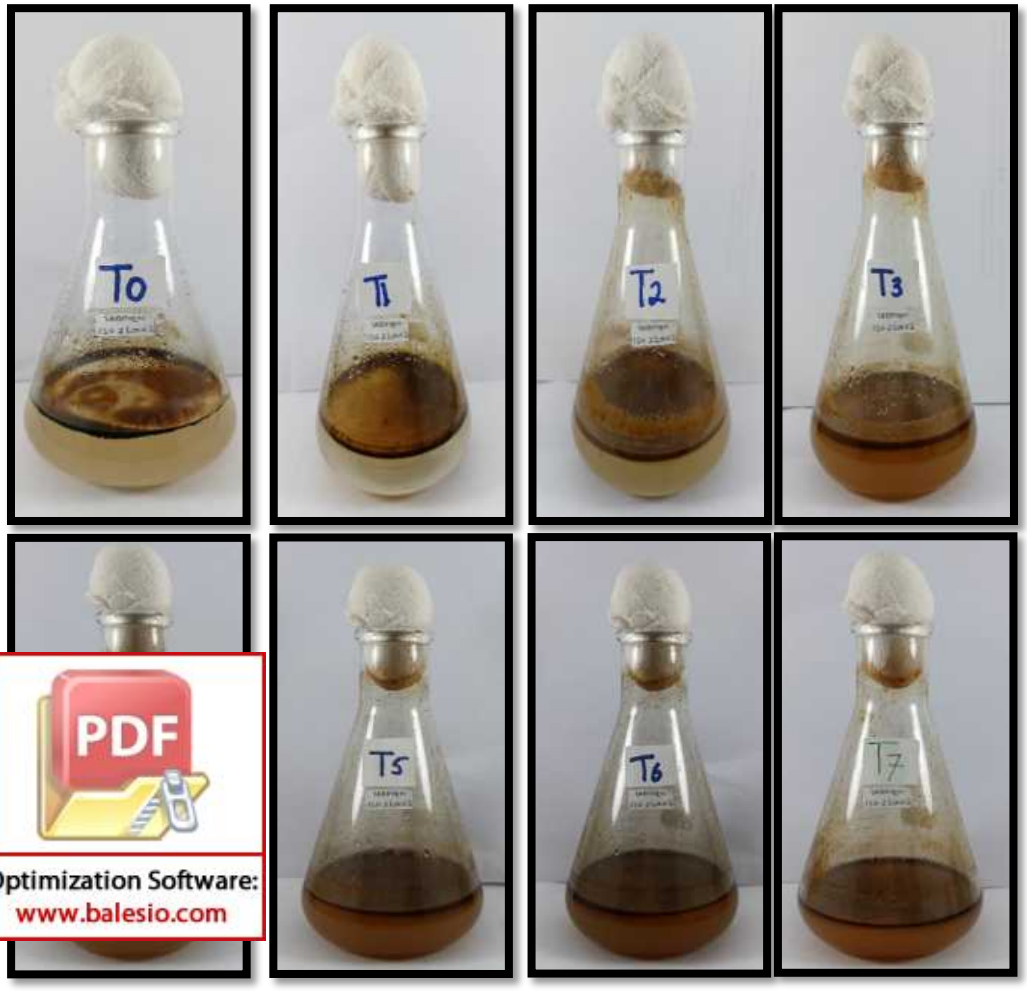
Disiapkan semua alat dan bahan yang akan digunakan

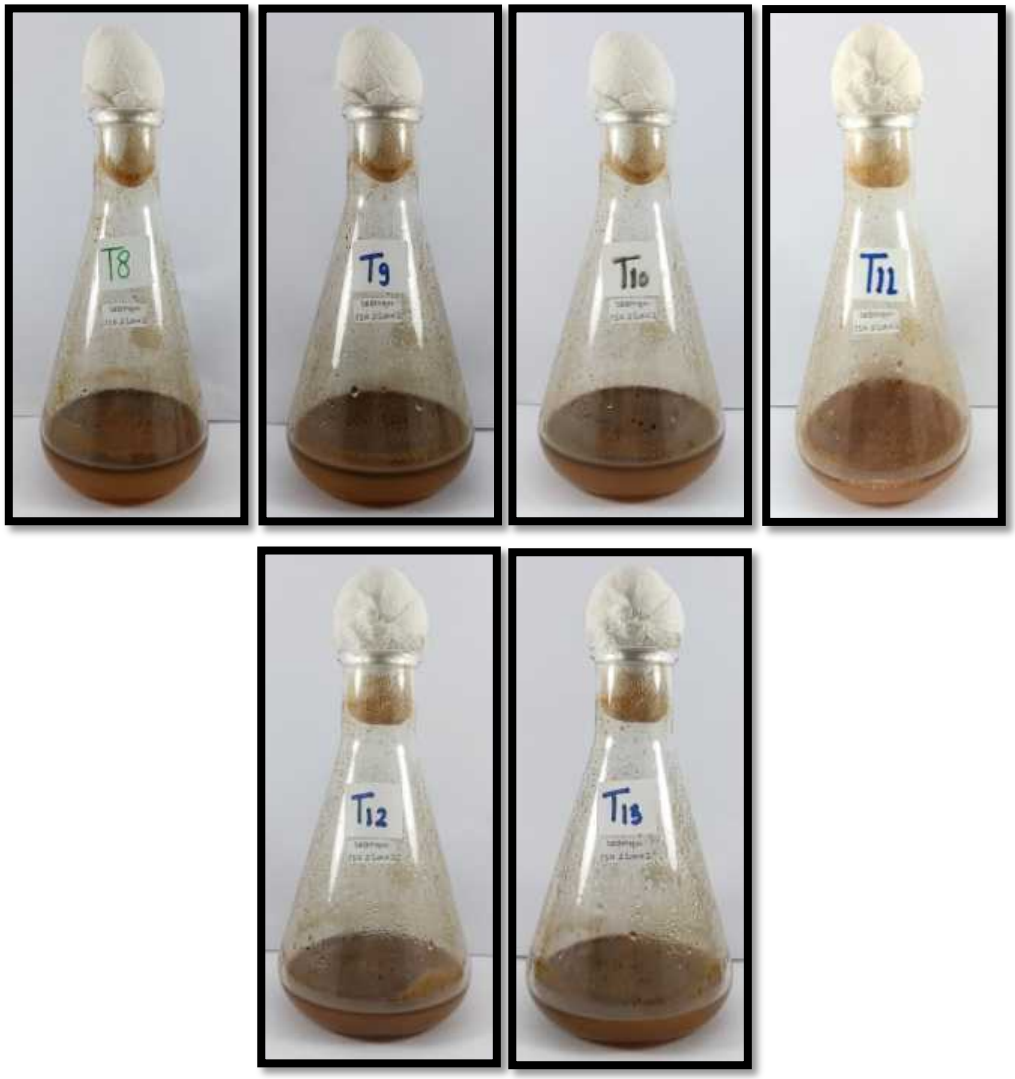
Ditimbang setiap bahan lalu dilarutkan dengan akuades

kan ke erlenmeyer lalu disterilisasi menggunakan autoklaf

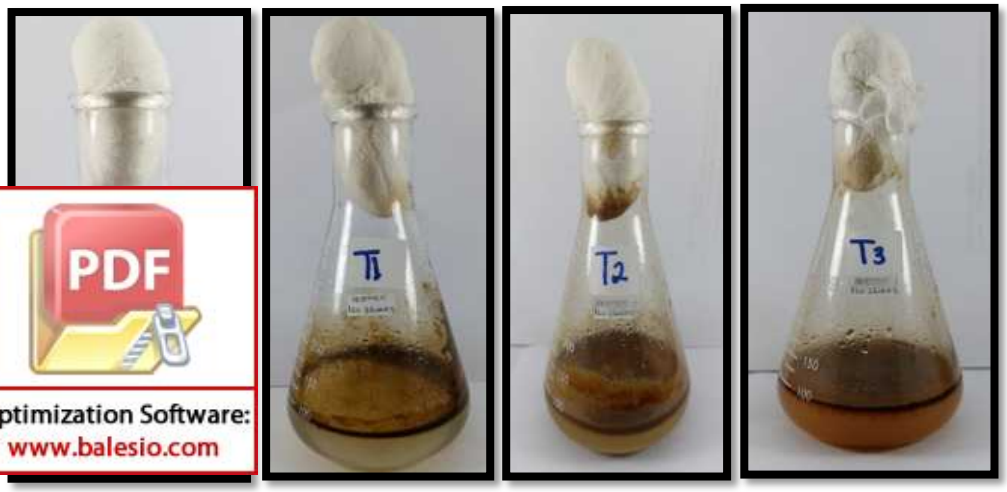
Lampiran 3. Pertumbuhan Isolat Bakteri pada Media ALS

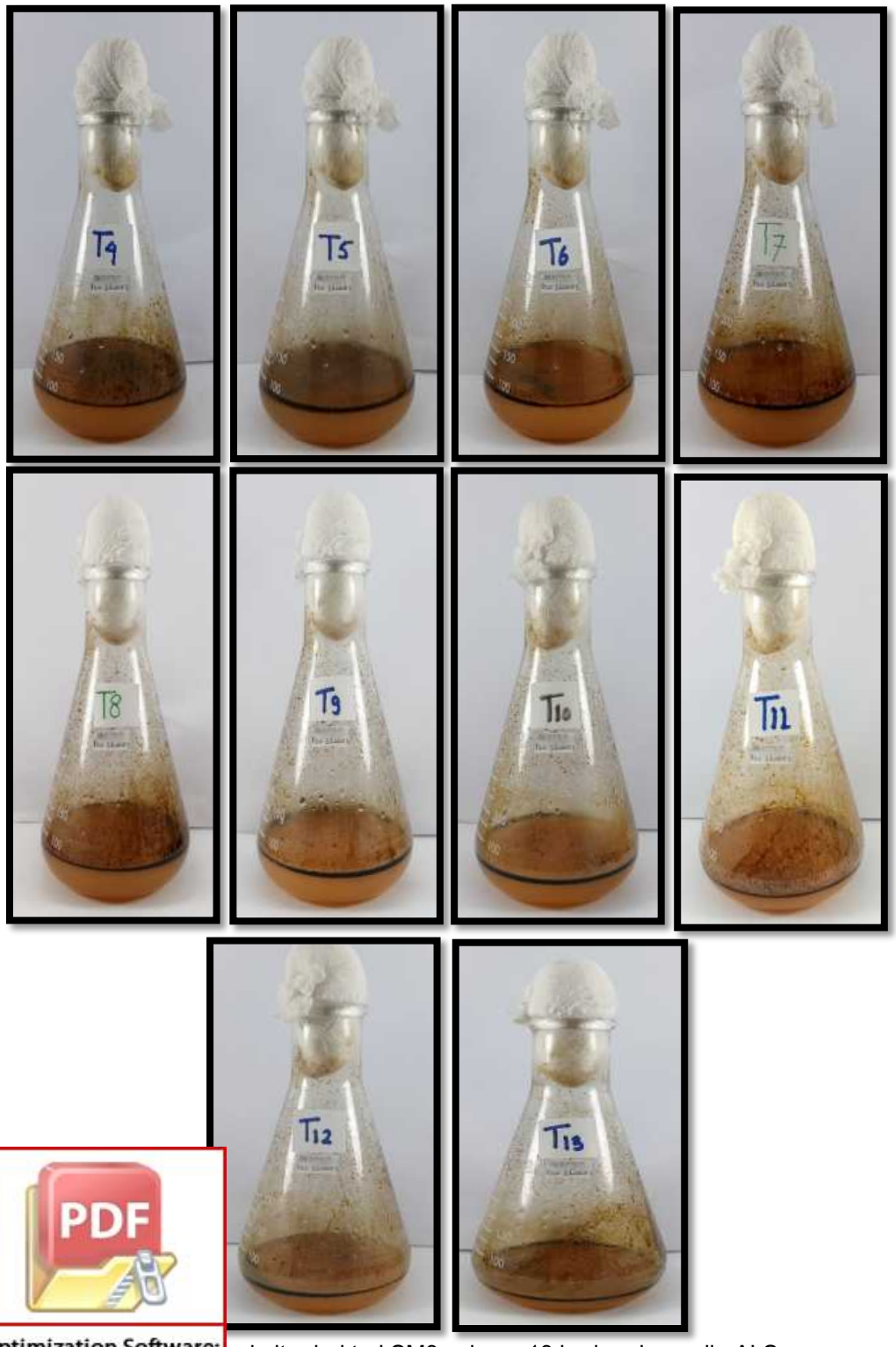
Isolat bakteri ditumbuhkan pada media ALS





Pertumbuhan kultur bakteri SM2 selama 13 hari pada media ALS





n kultur bakteri SM3 selama 13 hari pada media ALS

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

Pengukuran kurva pertumbuhan bakteri menggunakan spektofotometer

dengan mencampurkan kultur bakteri dan petroleum, lalu
enggunakan sentrifuge dan diukur indeks emulsifikasi kultur
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 Krurva Pertumbuhan Bakteri

Waktu Inkubasi (Hari)	Kultur Bakteri SM2		Kultur Bakteri SM3	
	Nilai %T	Nilai OD	Nilai %T	Nilai OD
T0	0,09	81	0,09	81
T1	0,15	71	0,13	76
T2	0,19	65	0,14	73
T3	0,22	60	0,17	67
T4	0,37	43	0,30	51
T5	0,70	20	0,38	42
T6	1,5	4	0,48	33
T7	2	1	1,22	6
T8	2	1	1,52	3
T9	2	1	2	1
T10	2	1	2	1
T11	2	1	2	1
T12	2	1	2	1
T13	2	1	2	1

Nilai Indeks Emulsifikasi

Isolat	Waktu Inkubasi (Hari)	Tinggi Emulsi (cm)	Tinggi Total Larutan (cm)	Indeks Emulsifikasi (%EI)
SM2	T1	1,9	3,3	57.60%
	T4	2,3	3,3	69.70%
	T6	2,6	3,4	76.40%
	T11	2,1	3,4	61.70%
SM3	T1	2,0	3,4	58.82%
	T4	2,4	3,4	70,59%
	T8	2,5	3,4	73.52%
	T11	2,2	3,3	66.70%

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
SM2	T1	2.3 dyne/cm	5.7 dyne/cm	6.2 dyne/cm
	T4	6.8 dyne/cm	7.6 dyne/cm	10.6 dyne/cm
	T6	18.5 dyne/cm	29.1 dyne/cm	31.2 dyne/cm
	T11	14.3 dyne/cm	15.6 dyne/cm	20.3 dyne/cm
SM3	T1	6.3 dyne/cm	7.2 dyne/cm	7.1 dyne/cm
	T4	10.6 dyne/cm	10.7 dyne/cm	11.7 dyne/cm
	T8	15.9 dyne/cm	18 dyne/cm	19.4 dyne/cm
	T11	4.6 dyne/cm	7.6 dyne/cm	7.2 dyne/cm