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LAMPIRAN 1

HASIL KARAKTERISASI MINYAK KLENTIK



LAPORAN HASIL PENGUJIAN No. 584 /lab uji-DT/FTIP/SF/2018

No	Parameter Analisis	Hasil Analisis	Satuan Hasil	Metode Pengujian
Minyak Klentik				
1	Bobot Jenis Relatif	0,9210	g/ml	SNI 06-2385 : 2006
2	Rotasi Optik	tidak terdeteksi	-	
3	Indeks Bias	1,45159	-	
4	Kelarutan dalam Etanol	larutan jernih pada perbandingan 1 : 10	-	
5	Bilangan Asam	1,06	mg KOH/g sampel	
6	Bilangan Ester	tidak terdeteksi	-	

Jatinangor, 19 September 2018

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Hasil Pengujian ini hanya berhubungan dengan sampel yang diajukan. Laporan ini tidak boleh diperbanyak tanpa persetujuan tertulis dari Laboratorium Jasa Uji - FTIP Unpad. The result of these tests is related only to the sample(s) that is submitted. This report shall not be reproduced except in full context, without the written approval of Laboratorium Jasa Uji - FTIP Unpad

Gambar V.1 Hasil karakterisasi Minyak Klentik

LAMPIRAN 2

DATA PENGUJIAN TEGANGAN PERMUKAAN

Tabel V.9

Pengukuran Tegangan Permukaan dengan Metode Kapilaritas

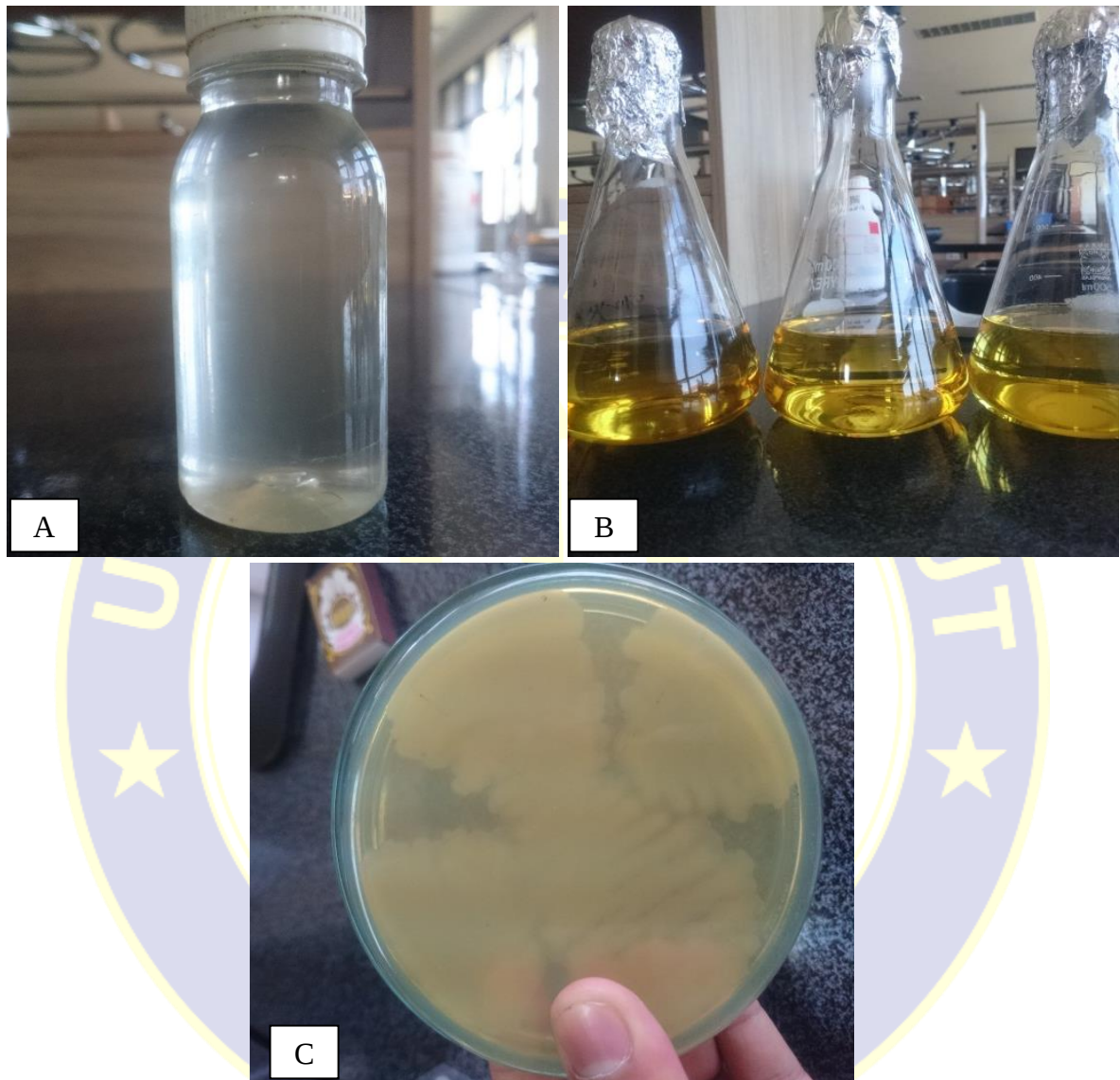
No.	Sampel	h (cm)	$\bar{X}$ (cm)	γ (mN/m)
1.	Air	1,31	1,04	71,984
		1,14		
		1,22		
2.	Biosurfaktan Residu 5%	0,88	0,96	52,618
		1,03		
		0,97		
3.	Biosurfaktan Filtrat 4%	0,98	0,94	55,587
		0,90		
		0,94		
4.	Biosurfaktan Filtrat 5%	0,86	0,91	54,102
		0,97		
		0,89		
5.	Biosurfaktan Filtrat 6%	1,03	1,08	64,488
		1,14		
		1,06		
6.	Supernatan 4%	0,86	0,91	54,091
		0,91		
		0,80		
7.	Supernatan 5%	0,94	1,13	57,368
		0,88		
		0,90		
8.	Supernatan 6%	1,15	0,88	56,781
		1,05		
		1,89		

Keterangan: h = Tinggi cairan

 $\bar{X}$ = Rata-rata tinggi cairan γ = Tegangan permukaan

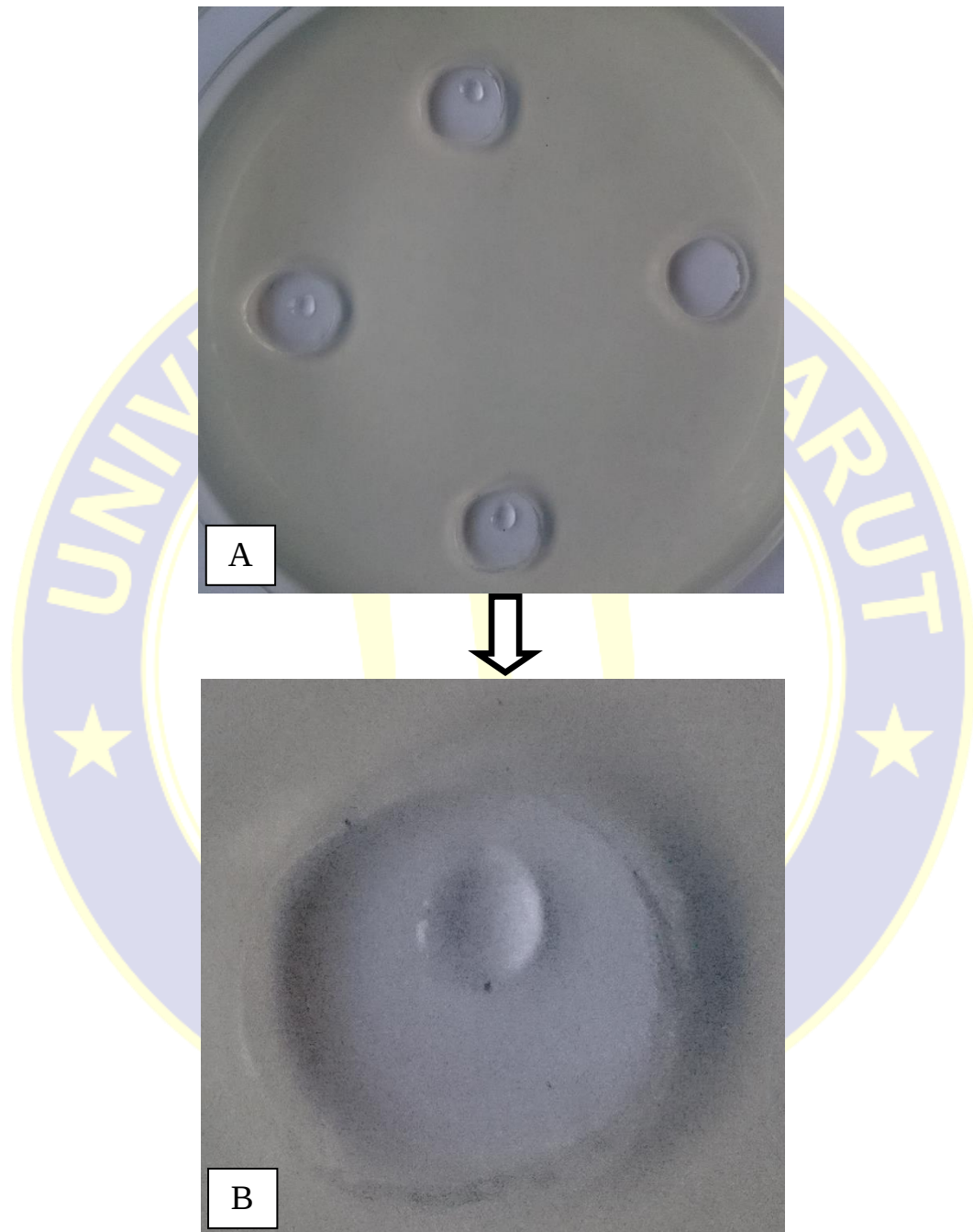
LAMPIRAN 3

MINYAK KLENTIK, MEDIA DAN BAKTERI UJI



Gambar V.2 (A) Minyak Klentik, (B) Media LB dan (C) Bakteri *Bacillus subtilis*

LAMPIRAN 4

GAMBAR HASIL DCT (*DROP COLLAPSE TEST*)

Gambar V.3 (A) Pengujian *Drop Collapse Test*
(B) Gambar tetesan minyak yang diperbesar pada pengujian *Drop Collapse Test*

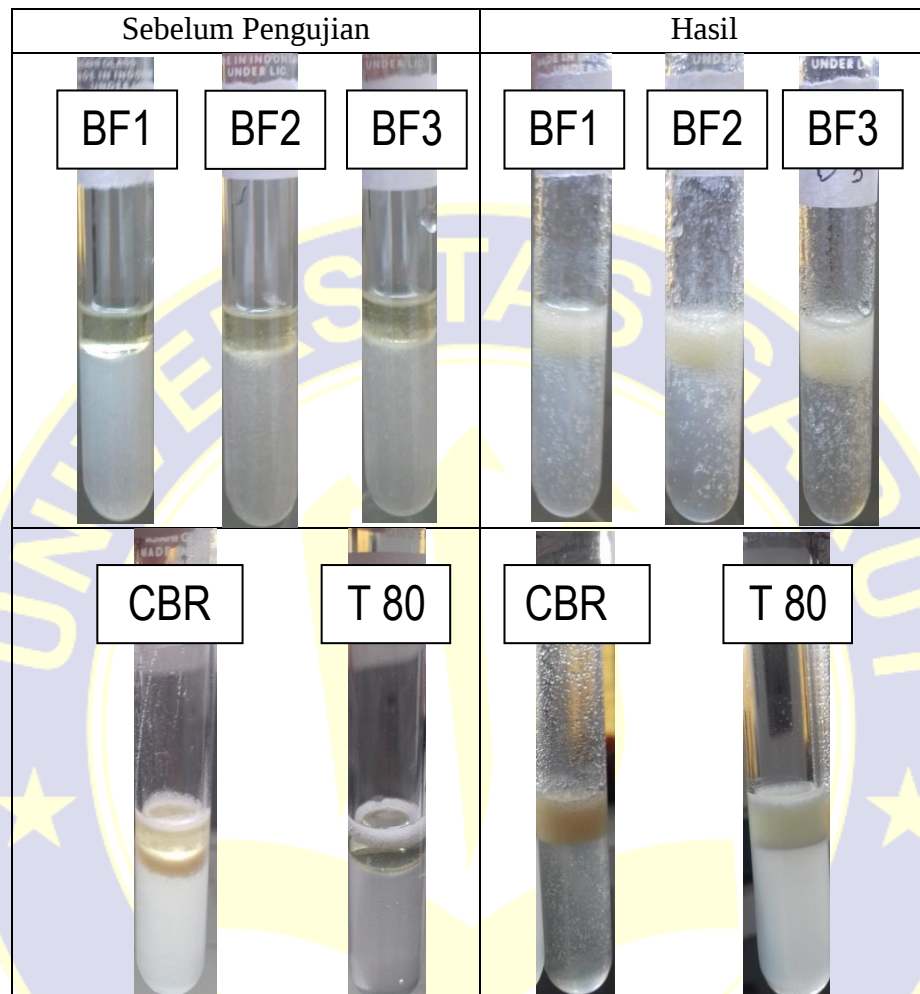
LAMPIRAN 5

HASIL OSA (*OIL SPREADING ASSAY*)

Sebelum Pengujian	Hasil Pengujian
 aquadest	 aquadest
 Tween 80	 Tween 80
 Supernatan 4%	 Supernatan 4%
 Supernatan 5%	 Supernatan 5%
 Supernatan 6%	 Supernatan 6%

Gambar V.4 Hasil pengujian OSA (*Oil Spreading Assay*)

LAMPIRAN 6

HASIL IE₂₄ (INDEKS EMULSIFIKASI)Gambar V.5 Hasil pengamatan Indeks Emulsifikasi (IE₂₄)

Keterangan: BF1 = Biosurfaktan kotor hasil filtrasi dari supernatan 4%
 BF2 = Biosurfaktan kotor hasil filtrasi dari supernatan 5%
 BF3 = Biosurfaktan kotor hasil filtrasi dari supernatan 6%
 CBR = Biosurfaktan kotor hasil sentrifugasi dari supernatan 5%
 T 80 = Tween 80