

LAMP IRAN



Lampiran 01. Data Pengukuran Penumbuhan Biomassa Sel Melalui OD (Optical Density)

JAM	<i>Alcaligenes spi</i>			<i>Alcaligenes sp2</i>			<i>Pseudomonas sp</i>					
	A	B	C	K	A	B	C	A	B	C	K	
0	0.15	0.13	0.10	0.16	0.10	0.11	0.10	0.11	0.30	0.29	0.22	0.24
4	0.18	0.13	0.11	0.16	0.10	0.11	0.12	0.11	0.38	0.35	0.23	0.28
8	0.55	0.21	0.17	0.17	0.26	0.18	0.17	0.15	0.41	0.50	0.30	0.45
12	0.64	0.52	0.30	0.28	0.60	0.34	0.23	0.18	0.60	0.70	0.48	0.69
16	0.73	0.63	0.46	0.36	0.88	0.48	0.40	0.24	0.94	0.95	0.80	0.73
20	0.96	0.65	0.55	0.36	1.00	0.60	0.55	0.4	1.30	1.16	0.92	0.70
24	1.22	0.66	0.60	0.32	1.00	0.64	0.63	0.4	1.45	1.16	0.89	0.65
28	1.22	0.66	0.58	0.28	0.98	0.70	0.62	0.4	1.40	1.10	0.81	0.62
32	1.17	0.65	0.55	0.2	0.92	0.68	0.61	0.35	1.37	0.90	0.7	0.58
36	1.16	0.65	0.53	0.10	0.92	0.66	0.59	0.30	1.37	0.80	0.64	0.50
40	1.14	0.64	0.52	0.10	0.92	0.60	0.57	0.28	1.36	0.78	0.6	0.49

Keterangan:

K: Medium tanpa minyak

A: Medium dengan konsentrasi minyak 10 ppm

B: Medium dengan konsentrasi minyak 30 ppm

C: Medium dengan konsentrasi minyak 70 ppm

Lampiran 02. Tabel Karakteristik Bakteri Gram Negatif Menurut Cowan (1975)

Table 7.1 First-stage table for Gram-negative bacteria

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Shape	R	S	S	S	S/R	R	R	R	R	R	R	R	R	R	R	R	R	R
Motility	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+
Growth in air	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Growth anaerobically	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Catalase	D	D	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Oxidase	-	x	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+
Glucose (acid)	D	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carbohydrates (F/D)...	F	-	O	-	O	-	-	O	O	F	F	F	F	F	F	-	-	F

<i>Bacteroides</i>	+	7.2																
<i>Yersinia</i>																		
<i>Neisseria</i>			+															
<i>Brucella</i>				7.3														
<i>Acinetobacter</i>					+													
<i>Moraxella</i>						+												
<i>Brucella</i>							7.1											
<i>Bordetella</i>																		
<i>Chromobacterium helvolum</i>										7.5								
<i>Alcaligenes</i>																		
<i>Flavobacterium</i>																		
<i>Pseudomonas</i>																		
<i>Actinobacillus</i>																		
<i>Pasteurella</i>																		
<i>Neisseria</i>																		
<i>Cochlosphaera</i>																		
<i>Chromobacterium violaceum</i>																		
<i>Serratia</i>																		
<i>Vibrio</i>																		
<i>Plesiomonas</i>																		
<i>Aeromonas</i>																		
<i>Enterobacter</i>																		
<i>Haemophilus</i>																		
<i>Elkenella</i>																		
<i>Campylobacter</i>																		
<i>Streptobacillus</i>																		
<i>Mycoplasma</i>																		

No growth in air; growth in air + CO₂.
 No growth in air or anaerobically; growth in 5-6% O₂.
 Also *Shigella dysenteriae* 1 (*Shiga*'s bacillus).
 Typical flagella.
 Not known.

Cultural characters of those organisms can be found in tables with the number indicated.
 NT Not testable by usual methods. Fermentative (Sneath & Johnson, 1973).

Symbols used in the table are explained in Tables 5.1 and 5.2 (facing p. 43).

Lampiran 03. Daftar kriteria kualitas air golongan D

PARAMETER	MAKSIMUM YANG DIPER- BOLEHKAN
A. Kimia Anorganik.	
1. Aluminium	((sebagai AL) 10 ppm
2. Arsen	(" As) 1 "
3. Barium	(" Ba) 1 "
4. Besi	(" Fe) 4 "
5. Krom Valensi 6	(" Cr+6) 0,1 "
6. Kadmium	(" Cd) 1 "
7. Nikel	(" Ni) 2 "
8. Perak	(" Ag) 0,1 "
9. Raksa	(" Hg) 0,1 "
10. Seng	(" Zn) 4 "
11. Tembaga	(" Cu) 1 "
12. Timbal	(" Pb) 1 "
13. Amonium	(" NH ₃) 1,5 "
14. Klor bebas	(" Cl ₂) 0,05 "
15. Fluorida	(" F ²⁻) 2 "
16. Nitrit	(" NO ₂) 1 "
17. Fosfat	(" PO ₄) 2 "
18. Sulfida	(" S ⁻²) 0,1 "
B. Kimia.	
1. pH	6,5 - 8,5
2. Zat yang bereaksi dengan biru metilen	negatif
3. BOD	30 ppm
4. COD	80 ppm
5. Angka KMnO ₄	90 ppm
C. Kimia Organik.	
1. Hidrokarbon/minyak-2 mineral	10 ppm
2. Minyak dan lemak	10 ppm
3. Phenol (sebagai Phenol)	0,1 ppm
4. Sianida (sebagai CN)	0,1 ppm

Sumber : Peraturan Pemerintah Republik Indonesia
 Nomor : 20 tahun 1990
 Tanggal : 5 Juni 1990