

Lampiran 4. Pengaruh Variasi Volume Ekstrak Siwak terhadap Penyisihan Koloni E.Coli

No	Waktu Kontak (menit)	Volume Ekstrak (ml)	Jumlah Koloni (CFU/ml)		Penyisihan Koloni Bakteri		
			10 ⁻¹	10 ⁻²	%	Log Reduksi	N/N ₀
1	1	0		121500	-	-	-
		1		65000	46,502	0,272	0,535
		5		129500	-6,584	-0,028	1,066
		10		44500	63,374	0,436	0,366
		15		50500	58,436	0,381	0,416
2	5	0		5000	-	-	-
		1		3500	30	0,155	0,7
		5		11500	-130	-0,362	2,3
		10		9500	-90	-0,279	1,9
		15		1	99,980	3,699	2,00E-04
3	10	0		22000	-	-	-
		1		42000	-90,909	-0,281	1,909
		5		10000	54,545	0,342	0,455
		10		1	99,995	4,342	4,55E-05
		15		3500	84,091	0,798	0,159
4	15	0	6550		-	-	-
		1	9050		-38,168	-0,140	1,382
		5	100		98,473	1,816	0,015
		10	2800		57,252	0,369	0,427
		15	4000		38,931	0,214	0,611
5	30	0	3300		-	-	-
		1	2150		34,848	0,186	0,652
		5	700		78,788	0,673	0,212
		10	1400		57,576	0,372	0,424
		15	550		83,333	0,778	0,167
6	60	0	1050		-	-	-
		1	800		23,810	0,118	0,762
		5	1250		-19,048	-0,076	1,190
		10	18250		-	-1,240	17,381
		15	1250		-19,048	-0,076	1,190

Contoh perhitungan:

$$\text{Penyisihan Koloni Bakteri (P)} = \frac{N_0 - N}{N_0} \times 100\% = \frac{121.500 - 65.000}{121.500} \times 100\% = 46,502\%$$

$$\text{Log reduksi} = -(\log_{10} (-P/100 + 1)) = -(\log_{10} (-46,502/100 + 1)) = 0,272$$