

**Lampiran 5. Pengaruh Variasi Waktu Kontak Ekstrak Siwak terhadap  
Penyisihan Koloni E.Coli**

No	Volume Ekstrak (ml)	Waktu Kontak (menit)	Jumlah Koloni (CFU/ml)		Penyisihan Koloni Bakteri		
			10 <sup>-1</sup>	10 <sup>-2</sup>	%	Log Reduksi	N/N <sub>0</sub>
1	0	1		121.500			
		5		5.000			
		10		22.000			
		15	6550				
		30	3300				
		60	1050				
2	1	1		65.000	46,502	0,272	0,535
		5		3.500	30	0,155	0,700
		10		42.000	-90,909	-0,281	1,909
		15	9050		-38,168	-0,140	1,382
		30	2150		34,848	0,186	0,652
		60	800		23,810	0,118	0,762
3	5	1		129.500	-6,584	-0,028	1,066
		5		11.500	-130	-0,362	2,300
		10		10.000	54,545	0,342	0,455
		15	100		98,473	1,816	0,015
		30	700		78,788	0,673	0,212
		60	1250		-19,048	-0,076	1,190
4	10	1		44.500	63,374	0,436	0,366
		5		9.500	-90	-0,279	1,900
		10		1	99,995	4,342	4,55E-05
		15	2800		57,252	0,369	0,427
		30	1400		57,576	0,372	0,424
		60	18250		-	-1,240	17,381
5	15	1		50.500	58,436	0,381	0,416
		5		1	99,980	3,699	2,00E-04
		10		3.500	84,091	0,798	0,159
		15	4000		38,931	0,214	0,611
		30	550		83,333	0,778	0,167
		60	1250		-19,048	-0,076	1,190

Contoh perhitungan:

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

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