

**Lampiran 6. Pengaruh Variasi Massa Residu Siwak terhadap Penyisihan Koloni E.Coli**

No	Waktu Kontak (menit)	Massa Residu (mg)	Jumlah Koloni (CFU/ml)		Penyisihan Koloni Bakteri 10 <sup>-1</sup>			Penyisihan Koloni Bakteri 10 <sup>-2</sup>		
			10 <sup>-1</sup>	10 <sup>-2</sup>	%	Log Reduksi	N/N <sub>0</sub>	%	Log Reduksi	N/N <sub>0</sub>
1	1	0	24950	54000	-	-	-	-	-	-
		1	12750	38500	48,898	0,292	0,511	28,704	0,147	0,713
		5	11850	42000	52,505	0,323	0,475	22,222	0,109	0,778
		10	11250	44500	54,910	0,346	0,451	17,593	0,084	0,824
		15	6150	45500	75,351	0,608	0,246	15,741	0,074	0,843
2	5	0	26500	136000	-	-	-	-	-	-
		1	14600	67000	44,906	0,259	0,551	50,735	0,307	0,493
		5	8600	34500	67,547	0,489	0,325	74,632	0,596	0,254
		10	8850	35500	66,604	0,476	0,334	73,897	0,583	0,261
		15	7850	28000	70,377	0,528	0,296	79,412	0,686	0,206
3	10	0	18650	187500	-	-	-	-	-	-
		1	12850	61500	31,099	0,162	0,689	67,200	0,484	0,328
		5	8500	54500	54,424	0,341	0,456	70,933	0,537	0,291
		10	9800	47500	47,453	0,279	0,525	74,667	0,596	0,253
		15	7300	21000	60,858	0,407	0,391	88,800	0,951	0,112
4	15	0	21300	97500	-	-	-	-	-	-
		1	12350	60000	42,019	0,237	0,580	38,462	0,211	0,615
		5	12950	44500	39,202	0,216	0,608	54,359	0,341	0,456
		10	13400	61000	37,089	0,201	0,629	37,436	0,204	0,626
		15	12750	39500	40,141	0,223	0,599	59,487	0,392	0,405
5	30	0	24750	182000	-	-	-	-	-	-
		1	22600	57000	8,687	0,039	0,913	68,681	0,504	0,313
		5	11750	65500	52,525	0,324	0,475	64,011	0,444	0,360
		10	10550	72500	57,374	0,370	0,426	60,165	0,400	0,398
		15	6150	28000	75,152	0,605	0,248	84,615	0,813	0,154
6	60	0	23050	55500	-	-	-	-	-	-
		1	8550	25000	62,907	0,431	0,371	54,955	0,346	0,450
		5	6950	26000	69,848	0,521	0,302	53,153	0,329	0,468
		10	5300	22000	77,007	0,638	0,230	60,360	0,402	0,396
		15	4050	16000	82,430	0,755	0,176	71,171	0,540	0,288

Contoh perhitungan:

$$\text{Penyisihan Koloni Bakteri (P)} = \frac{N_0 - N}{N_0} \times 100\% = \frac{24.950 - 12.750}{24.950} \times 100\% = 48,898\%$$

$$\text{Log reduksi} = -(\log_{10} (-P/100 + 1)) = -(\log_{10} (-48,898/100 + 1)) = 0,292$$