

Neutralizer Toxicity Control

Table S1. Results obtained, in number of colonies per plate, regarding the neutralizer toxicity controls (assay 1 and assay 2), made in order to guarantee the absence of toxicity by the neutralizer. Different concentrations of sodium thiosulfate (3, 5, 8, 10, 15, 20 g/L were tested).

ATCC Tested	Neutralizer Composition		Number of Colonies			
			Incubation Time (37 °C)			
			24 hours		48 hours	
			Assay 1	Assay 2	Assay 1	Assay 2
<i>Escherichia coli</i> ATCC 10536	Control		43		43	
		3	44	42	44	42
	Polysorbate 80	5	32	40	32	40
	(30 g/L)	Sodium Thiosulfate (g/L)	34	33	34	34
	+		41	36	41	36
	Lecithin		34	44	35	44
	(3 g/L)		43	55	43	55
		20				
<i>Enterococcus hirae</i> ATCC 10541	Control		39		39	
		3	47	36	47	36
	Polysorbate 80	4	36	38	36	38
	(30 g/L)	Sodium Thiosulfate (g/L)	39	30	39	30
	+		45	47	45	47
	Lecithin		40	28	41	29
	(3 g/L)		38	39	39	39
		20				
<i>Pseudomonas aeruginosa</i> ATCC 15442	Control		13		13	
		3	10	10	10	11
	Polysorbate 80	5	11	16	13	18
	(30 g/L)	Sodium Thiosulfate (g/L)	15	16	15	16
	+		10	13	10	15
	Lecithin		16	16	17	16
	(3 g/L)		11	14	15	15
		20				
<i>Staphylococcus aureus</i> ATCC 6538	Control		35		36	
		3	45	40	46	40
	Polysorbate 80	5	32	36	32	36
	(30 g/L)	Sodium Thiosulfate (g/L)	27	33	27	33
	+		40	33	40	34
	Lecithin		43	38	43	39
	(3 g/L)		28	35	28	36
		20				

Neutralizing Method Validation

Table S2. Results obtained, in number of colonies per plate, regarding the neutralizing method validation controls (assay 1 and assay 2), made in order to guarantee Virkon S's neutralization. The number of colonies was determined after a 24- and 48-hour period of incubation at 37 °C. Different concentrations of sodium thiosulfate (3, 5, 8, 10, 15, 20 g/L were tested).

Interfering Substance	Neutralizer Composition			Number of Colonies			
				Incubation Time (37 °C)			
				24 hours		48 hours	
				Assay 1	Assay 2	Assay 1	Assay 2
None	Polysorbate 80 (30 g/L) + Lecithin (3 g/L)	Sodium Thiosulfate (g/L)	3	40	42	42	43
			5	40	47	40	47
			8	52	49	52	49
			10	50	46	51	48
			15	55	51	55	51
			20	49	41	48	41
Low	Polysorbate 80 (30 g/L) + Lecithin (3 g/L)	Sodium Thiosulfate (g/L)	3	74	-	74	-
			5	80	88	80	88
			8	86	70	86	73
			10	92	86	92	88
			15	86	94	88	94
			20	114	105	114	105
High	Polysorbate 80 (30 g/L) + Lecithin (3 g/L)	Sodium Thiosulfate (g/L)	3	172	179	172	179
			5	187	189	191	189
			8	196	191	196	191
			10	189	202	189	202
			15	215	204	215	214
			20	201	209	201	209