

Various Fruit – Log reductions

UV-C TRIAL DATA	TVC at 30°C	Ecoli	L.monocy togenes	Enterobac teriaceae	Yeasts	Moulds	S.aureus	Salmonella
	cfu/g	cfu/g	cfu/g	cfu/g	cfu/g	cfu/g	cfu/g	cfu/g
Strawberry control	1400	< 10	< 10	<20	2600	600	< 10	n/a
Strawberry post UV-C treatment	12	< 10	< 10	<20	33	28	< 10	n/a
Log Kill	2.1	N/A	N/A	N/A	1.9	1.3	N/A	N/A
Strawberry Challenged	n/a	136000	420000	28000	n/a	n/a	52000	51000
Strawberry challenged post UV-C treatment	n/a	9	66	18	n/a	n/a	40	12
Log Kill	n/a	4.2	3.8	3.2	n/a	n/a	3.1	3.6
Grape Control	2500	< 10	< 10	<20	7800	3900	< 10	n/a
Grape post UV-C treatment	<10	< 10	< 10	<20	24	10	< 10	n/a
Log Kill	3.0	N/A	N/A	N/A	2.5	2.6	N/A	N/A
Grape Challenged	n/a	128000	490000	31000	n/a	n/a	56000	53000
Grape challenged post UV-C treatment	n/a	23	50	11	n/a	n/a	22	19
Log Kill	n/a	3.7	4.0	3.4	n/a	n/a	3.4	3.4
Blackberry Control	900	< 10	< 10	<20	4400	2100	< 10	n/a
Blackberry post UV-C treatment	<10	< 10	< 10	<20	12	15	< 10	n/a
Log Kill	2.0	N/A	N/A	N/A	2.6	2.1	N/A	N/A
Blackberry Challenged	n/a	116000	430000	31000	n/a	n/a	60000	61000
Blackberry challenged post UV-C treatment	n/a	23	50	11	n/a	n/a	30	<10
Log Kill	n/a	3.7	3.9	3.4	n/a	n/a	3.3	4.0

Effect of UV-C doses on Challenged and SOL Strawberries

					TVC	Enterobacteriaceae	Yeasts	Moulds	Lactobacilli
					cfu/g	cfu/g	cfu/g	cfu/g	cfu/g
Product	STATUS	Challenged	Uvc Dose	Reps					
Strawberry	Control	No	None	7	2.6E+03	<10	9.3E+03	1.3E+02	1.9E+03
Strawberry	Dosed	No	3 Pass	7	4.0E+01	<10	3.0E+01	<10	<10
				Log kill	1.8	Non data	2.5	2.1	3.3
				% Kill	98.462	Non data	99.677	>99.999	>99.999

					L.monocytogenes	L.monocytogenes
				Reps	cfu/g	25 gram
Strawberry	Control	L.mono	None	7	3.1E+06	Pos 7
Strawberry	Dosed	L.mono	3 Pass	7	<10	Abs 6
				Log kill	6.5	
				% Kill	>99.999	
				% Absent	85.7	