

Aerosol Research and Engineering Labs Inc.

Analysis 16-24 November 2020

LOG Reduction Over Time

Fog Fan with 1% Citrox solution, MS2 Bacteriophage, 60 Minute Trials

	0 min	5 min	10 min	20 min		30 min			45 min		60 min		
	0	5	10	15	20	25	30	35	40	45	50	55	60
Zero	0.00	0.00	0.00		0.00		0.00			0.00			0.00
No Fan Control	0.00						-0.52						-1.08
60min Fan Control	0.00	-0.65	-1.47		-2.62		-3.10			-3.40			-3.93
3min Fan Control	0.00	-0.35	-0.61		-0.79		-0.89			-0.97			-1.21
MS2 T1 Mist & Fan for 60 min	0.00	-1.11	-2.23		-3.55		-4.07			-4.85			-5.38
MS2 T2 Mist for 3 min & Fan for 60 min	0.00	-0.82	-1.41		-2.03		-2.70			-3.16			-4.07
MS2 T3 Mist & Fan for 3 min	0.00	-0.38	-0.50		-0.76		-0.99			-1.12			-1.46
MS2 T4 Mist & Fan for 3 min	0.00	-0.36	-0.59		-0.68		-0.95			-1.12			-1.36
MS2 T3-T4-Average Mist & Fan for 3 min	0.00	-0.37	-0.55		-0.72		-0.97			-1.12			-1.41
NET EFFECT													
Net Log T1 / Fan Control		-0.46	-0.76		-0.93		-0.97			-1.45			-1.45
Net Log T2 / Fan Control		-0.17	0.06		0.59		0.40			0.24			-0.14
Net Log T3 / Fan Control		0.27	0.97		1.86		2.11			2.28			2.47
Net Log T4 / Fan Control		0.29	0.88		1.94		2.15			2.28			2.57
Net Log T3-T4-Average / Fan Control		0.28	0.93		1.90		2.13			2.28			2.52
Net Log T1 / No Fan Control		-1.11					-3.55						-4.30
Net Log T2 / No Fan Control		-0.82					-2.18						-2.99
Net Log T3 / No Fan Control		-0.38					-0.47						-0.38
Net Log T4 / No Fan Control		-0.36					-0.43						-0.28
Net Log T3-T4-Average / No Fan Control		-0.37					-0.45						-0.33
% Reduction T1 / Fan Control		65%	83%		88%		89%			96%			96%
% Reduction T2 / Fan Control		32%											28%
% Reduction T3 / Fan Control													
% Reduction T4 / Fan Control													
% Reduction T3-T4-Average / Fan Control													
% Reduction T1 / No Fan Control		92%					100%						100%
% Reduction T2 / No Fan Control		85%					99%						100%
% Reduction T3 / No Fan Control		58%					66%						58%
% Reduction T4 / No Fan Control		56%					63%						48%
% Reduction T3-T4-Average / No Fan Control		57%					65%						53%

ABSOLUTE REDUCTIONS	0 min	5 min	10 min	20 min	30 min	45 min	60 min
Log Reduction T1 (Mist & Fan for 60 min)		-1.11	-2.23	-3.55	-4.07	-4.85	-5.38
Log Reduction T2 (Mist for 3 min & Fan for 60 min)		-0.82	-1.41	-2.03	-2.70	-3.16	-4.07
Log Reduction T3 (Mist & Fan for 3 min)		-0.38	-0.50	-0.76	-0.99	-1.12	-1.46
Log Reduction T4 (Mist & Fan for 3 min)		-0.36	-0.59	-0.68	-0.95	-1.12	-1.36
Log Reduction T3-T4-Average (Mist & Fan for 3 min)		-0.37	-0.55	-0.72	-0.97	-1.12	-1.41
% Reduction T1 (Mist & Fan for 60 min)		92%	99%	100%	100%	100%	100%
% Reduction T2 (Mist for 3 min & Fan for 60 min)		85%	96%	99%	100%	100%	100%
% Reduction T3 (Mist & Fan for 3 min)		58%	68%	83%	90%	92%	97%
% Reduction T4 (Mist & Fan for 3 min)		56%	74%	79%	89%	92%	96%
% Reduction T3-T4-Average (Mist & Fan for 3 min)		57%	71%	81%	89%	92%	96%