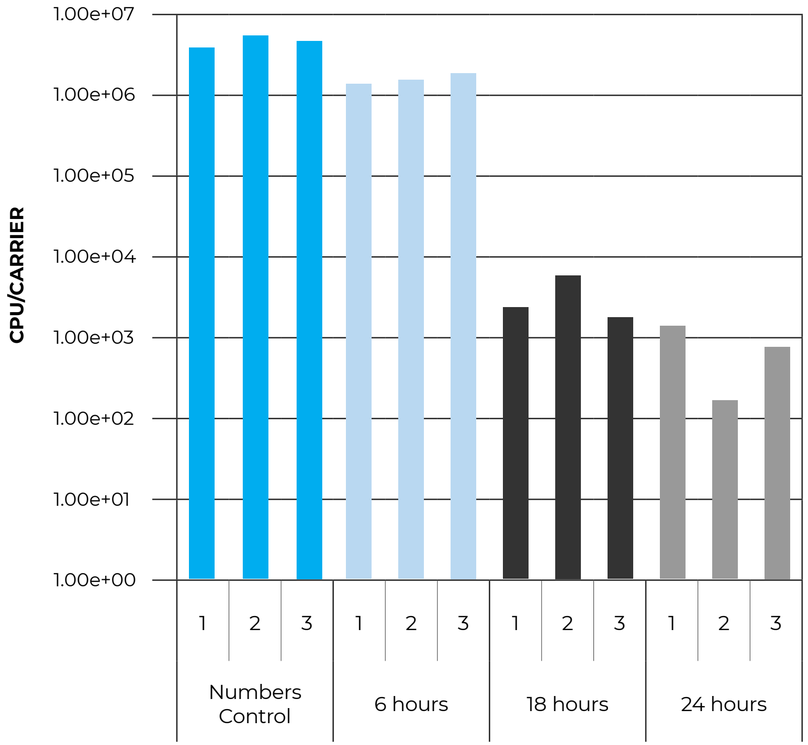
Study Report – AtmosAir vs. C. Diff

Test Report | Microchem Laboratory

The following graph and table are the calculated results for C. difficile 43598 (Endospores) when treated with AtmosAir in a closed chamber measuring 4'x4'.

Test device	Test Microorganizsm	Carrier Control/ Treatment	Replicate or Control Time Point	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log_{10} Reduction Compared to Control at Contact Time
Matterhorn	C. difficile 43598 (Endospores)	Numbers Control	6 hours	3.60E+06	n/a		
			18 hours	4.50E+06			
			24 hours	3.60E+06			
		6 hours	1	1.19E+06	1.53E+06	57.59%	0.37
			2	1.38E+06			
			3	2.01E+06			
		18 hours	1	2.50E+03	3.33E+03	99.93%	3.13
			2	5.20E+03			
			3	2.30E+03			
		24 hours	1	1.51E+03	8.17E+02	99.98%	3.64
			2	1.30E+02			
			3	8.10E+02			

The limit of detection for this assay is 1.00E+01 results below the limit of detection are reported as <1.00E+01.
Maximum Ionization Rate: 1,500 ions/cm3



Testing by Microchem Labs of AtmosAir vs. superbug C. difficile.

Test Result

The presence of C. Diff was reduced by 99.93% within 18 hours of exposure to AtmosAir's bi-polar ionization technology.
Ionization rate of 1,500 ions/cm3 is indicative of an ionization rate achieved with the AtmosAir system operating in a standard office building, school, hospital.