

5. Results

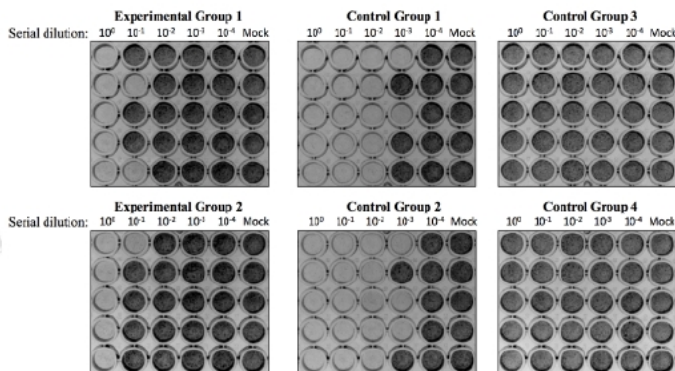


Figure 1. The anti-HCoV-229E activity of anion generator Airvida M1 (sample) were determined by TCID₅₀ assay. 10-fold serially diluted sample was added to MRC-5 cells for 7 days incubation. Cells were then fixed with 10% formaldehyde and stained with 1% crystal violet for 15 minutes. TCID₅₀ was calculated by Reed–Muench method [1].

Table 1. Released virus volume and corresponding virus titer of testing samples

	Experimental Group 1	Experimental Group 2	Control Group 1	Control Group 2	Control Group 3	Control Group 4
Virus Stock	HCoV-229E: 2x10 ⁵ TCID ₅₀ /ml	HCoV-229E: 2x10 ⁵ TCID ₅₀ /ml	HCoV-229E: 2x10 ⁵ TCID ₅₀ /ml		Infectious Medium	
Released Volume (μl)	150	150	325	325	108	108
Sedimentation Time (min)	10	15	10	15	10	15
Released Virus (TCID ₅₀)	3.00x10 ⁴	3.00x10 ⁴	6.50x10 ⁴	6.50x10 ⁴	0	0
Virus Titer of Testing Samples (TCID ₅₀ /ml)	3.41x10 ⁰	2.11x10 ¹	3.41x10 ⁰	7.34x10 ⁰	<5	<5

6. Reference

[1] Reed, L.J., and Muench, H. A simple method of estimating fifty percent endpoints. *American Journal of Epidemiology*, Volume 27, Issue 3, May 1938, Pages 493–499