

Summary of 2018 Annual Flu Strain Reactivity testing

Catalog 256045: BD Veritor™ System for Rapid Detection of Flu A + B, CLIA Waived kit

A panel of 8 human influenza viral strains was provided by the Centers for Disease Control for evaluating the reactivity of the BD Veritor™ System Flu A+B CLIA waived test. The viral isolates included 4 Influenza A and 4 Influenza B strains. Each sample was serially diluted in 5 fold dilutions from the stock provided and each dilution was assayed in replicates of 5. To create samples for testing, mock patient samples were prepared by pipetting 50 µL of each diluted sample onto a swab. Each swab was tested following the procedure stated in the BD product package insert.

All strains were successfully detected. The minimally reactive concentration was identified as the lowest dilution at which any of the 5 replicates gave a positive reading.

Results²:

Influenza Virus Type/(Subtype)	Virus Strain Name	Stock EID ₅₀ /mL	Virus Serial Dilution Concentration (EID ₅₀ /mL) and Number of Positive Results at Each Dilution						
			2×10 ^{7.9}	4×10 ^{6.9}	8×10 ^{5.9}	1.6×10 ^{5.9}	3.2×10 ^{4.9}	6.4×10 ^{3.9}	1.28×10 ^{3.9}
A (H3N2)	A/Perth/16/2009	10 ^{8.9}	2×10 ^{7.9}	4×10 ^{6.9}	8×10 ^{5.9}	1.6×10 ^{5.9}	3.2×10 ^{4.9}	6.4×10 ^{3.9}	1.28×10 ^{3.9}
			5/5	5/5	5/5	5/5	5/5	0/5	0/5
	A/Singapore/INFIMH-16-0019/2016	10 ^{8.2}	2×10 ^{7.2}	4×10 ^{6.2}	8×10 ^{5.2}	1.6×10 ^{5.2}	3.2×10 ^{4.2}	6.4×10 ^{3.2}	
			5/5	5/5	5/5	5/5	0/5	0/5	
A (H1N1)pdm09	A/California/07/2009	10 ^{8.9}	2×10 ^{7.9}	4×10 ^{6.9}	8×10 ^{5.9}	1.6×10 ^{5.9}	3.2×10 ^{4.9}	6.4×10 ^{3.9}	1.28×10 ^{3.9}
			5/5	5/5	5/5	5/5	5/5	0/5	0/5
	A/Michigan/45/2015	10 ^{8.2}	2×10 ^{7.2}	4×10 ^{6.2}	8×10 ^{5.2}	1.6×10 ^{5.2}	3.2×10 ^{4.2}	6.4×10 ^{3.2}	1.28×10 ^{3.2}
			5/5	5/5	5/5	5/5	5/5	0/5	0/5
B (Victoria lineage)	B/Brisbane/60/2008	10 ^{8.5}	2×10 ^{7.5}	4×10 ^{6.5}	8×10 ^{5.5}	1.6×10 ^{5.5}	3.2×10 ^{4.5}	6.4×10 ^{3.5}	
			5/5	5/5	5/5	5/5	0/5	0/5	
	B/Colorado/06/2017	10 ^{9.4}	2×10 ^{8.4}	4×10 ^{7.4}	8×10 ^{6.4}	1.6×10 ^{6.4}	3.2×10 ^{5.4}	6.4×10 ^{4.4}	
			5/5	5/5	5/5	3/5	0/5	0/5	
B (Yamagata lineage)	B/Wisconsin/1/2010	10 ^{8.9}	2×10 ^{7.9}	4×10 ^{6.9}	8×10 ^{5.9}	1.6×10 ^{5.9}	3.2×10 ^{4.9}	6.4×10 ^{3.9}	
			5/5	5/5	5/5	5/5	0/5	0/5	
	B/Phuket/3073/2013	10 ^{8.5}	2×10 ^{7.5}	4×10 ^{6.5}	8×10 ^{5.5}	1.6×10 ^{5.5}	3.2×10 ^{4.5}	6.4×10 ^{3.5}	
			5/5	5/5	5/5	5/5	0/5	0/5	

²all samples consisted of 50 µL of diluted viral sample on a swab identical to those contained in the BD Veritor™ CLIA Waived Flu kit. Results with actual patient samples may vary.