

Summary of 2021 Annual Flu Strain Reactivity Testing

Catalogue 1032: OSOM® Ultra Plus Flu A&B Test, CLIA Waived Kit

A panel of eight human influenza viral strains was provided by the Centers for Disease Control for evaluating the reactivity of the OSOM® Ultra Plus Flu A&B Test. The viral isolates included four influenza A and four influenza B strains. Each sample was serially diluted in 5-fold dilutions from the stock provided and each dilution was assayed in replicates of five. 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 OSOM® Ultra Plus Flu A&B Test instructions for use. All strains were successfully detected. The minimally reactive concentration was identified as the lowest dilution at which any of the five replicates gave a positive reading. www.sekisuidiagnostics.com

Influenza Virus (Type/Subtype)	Virus Strain Name	Stock Concentration	Virus 5-Fold Serial Dilutions (EID ₅₀ /mL) and Number of Positive Results at Each Dilution							
		(EID ₅₀ /mL)								
A(H3N2)	A/Perth/16/2009	1x10 ^{8.3}	2x10 ^{7.3}	4x10 ^{6.3}	8x10 ^{5.3}	1.6x10 ^{5.3}	3.2x10 ^{4.3}	6.4x10 ^{3.3}	1.28x10 ^{3.3}	2.56x10 ^{2.3}
			5/5	5/5	5/5	5/5	5/5	5/5	5/5	0/5
	A/Tasmania/503/2020	1x10 ^{8.5}	2x10 ^{7.5}	4x10 ^{6.5}	8x10 ^{5.5}	1.6x10 ^{5.5}	3.2x10 ^{4.5}	6.4x10 ^{3.5}	1.28x10 ^{3.5}	2.56x10 ^{2.5}
			5/5	5/5	5/5	5/5	5/5	5/5	0/5	0/5
A(H1N1)pdm09	A/Christ Church/16/2020	1x10 ^{9.2}	2x10 ^{8.2}	4x10 ^{7.2}	8x10 ^{6.2}	1.6x10 ^{6.2}	3.2x10 ^{5.2}	6.4x10 ^{4.2}	1.28x10 ^{4.2}	2.56x10 ^{3.2}
			5/5	5/5	5/5	5/5	5/5	5/5	0/5	0/5
	A/Victoria/2570/2019	1x10 ^{8.2}	2x10 ^{7.2}	4x10 ^{6.2}	8x10 ^{5.2}	1.6x10 ^{5.2}	3.2x10 ^{4.2}	6.4x10 ^{3.2}	1.28x10 ^{3.2}	2.56x10 ^{2.2}
			5/5	5/5	5/5	5/5	5/5	5/5	0/5	0/5
B (Victoria lineage)	B/Michigan/09/2011	1x10 ^{6.9}	2x10 ^{5.9}	4x10 ^{4.9}	8x10 ^{3.9}	1.6x10 ^{3.9}	3.2x10 ^{2.9}	6.4x10 ^{1.9}	1.28x10 ^{1.9}	2.56x10 ^{0.9}
			5/5	5/5	5/5	5/5	5/5	0/5	0/5	not tested
	B/Washington/02/2019	1x10 ^{9.3}	2x10 ^{8.3}	4x10 ^{7.3}	8x10 ^{6.3}	1.6x10 ^{6.3}	3.2x10 ^{5.3}	6.4x10 ^{4.3}	1.28x10 ^{4.3}	2.56x10 ^{3.3}
			5/5	5/5	5/5	5/5	3/5	0/5	0/5	not tested
B (Yamagata lineage)	B/Texas/81/2016	1x10 ^{8.1}	2x10 ^{7.1}	4x10 ^{6.1}	8x10 ^{5.1}	1.6x10 ^{5.1}	3.2x10 ^{4.1}	6.4x10 ^{3.1}	1.28x10 ^{3.1}	2.56x10 ^{2.1}
			5/5	5/5	5/5	5/5	5/5	2/5	0/5	0/5
	B/Phuket/3073/2013	1x10 ^{9.9}	2x10 ^{8.9}	4x10 ^{7.9}	8x10 ^{6.9}	1.6x10 ^{6.9}	3.2x10 ^{5.9}	6.4x10 ^{4.9}	1.28x10 ^{4.9}	2.56x10 ^{3.9}
			5/5	5/5	5/5	5/5	5/5	5/5	0/5	0/5

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Influenza Virus (Type/Subtype)	Virus Strain Name	Stock Concentration	Virus 5-Fold Serial Dilutions (EID ₅₀ /mL) and Number of Positive Results at Each Dilution							
		(EID ₅₀ /mL)								
A(H3N2)	A/Perth/16/2009	1x10 ^{9.3}	2x10 ^{8.3}	4x10 ^{7.3}	8x10 ^{6.3}	1.6x10 ^{6.3}	3.2x10 ^{5.3}	6.4x10 ^{4.3}	1.28x10 ^{4.3}	2.56x10 ^{3.3}
			5/5	5/5	5/5	5/5	4/5	0/5	0/5	not tested
	A/Hong Kong/2671/2019	1x10 ^{7.5}	2x10 ^{6.5}	4x10 ^{5.5}	8x10 ^{4.5}	1.6x10 ^{4.5}	3.2x10 ^{3.5}	6.4x10 ^{2.5}	1.28x10 ^{2.5}	2.56x10 ^{1.5}
			5/5	5/5	0/5	0/5	not tested	not tested	not tested	not tested
A(H1N1)pdm09	A/Christ Church/16/2010	1x10 ^{10.2}	2x10 ^{9.2}	4x10 ^{8.2}	8x10 ^{7.2}	1.6x10 ^{7.2}	3.2x10 ^{6.2}	6.4x10 ^{5.2}	1.28x10 ^{5.2}	2.56x10 ^{4.2}
			5/5	5/5	5/5	5/5	3/5	0/5	0/5	not tested
	A/Guangdong-Maonan/1536/2019	1x10 ^{9.1}	2x10 ^{8.1}	4x10 ^{7.1}	8x10 ^{6.1}	1.6x10 ^{6.1}	3.2x10 ^{5.1}	6.4x10 ^{4.1}	1.28x10 ^{4.1}	2.56x10 ^{3.1}
			5/5	5/5	5/5	0/5	0/5	not tested	not tested	not tested
B (Victoria lineage)	B/Michigan/09/2011	1x10 ^{6.9}	2x10 ^{5.9}	4x10 ^{4.9}	8x10 ^{3.9}	1.6x10 ^{3.9}	3.2x10 ^{2.9}	6.4x10 ^{1.9}	1.28x10 ^{1.9}	2.56x10 ^{0.9}
			5/5	5/5	5/5	0/5	0/5	not tested	not tested	not tested
	B/Washington/02/2019	1x10 ^{9.2}	2x10 ^{8.2}	4x10 ^{7.2}	8x10 ^{6.2}	1.6x10 ^{6.2}	3.2x10 ^{5.2}	6.4x10 ^{4.2}	1.28x10 ^{4.2}	2.56x10 ^{3.2}
			5/5	5/5	5/5	5/5	0/5	0/5	not tested	not tested
B (Yamagata lineage)	B/Texas/81/2016	1x10 ^{8.3}	2x10 ^{7.3}	4x10 ^{6.3}	8x10 ^{5.3}	1.6x10 ^{5.3}	3.2x10 ^{4.3}	6.4x10 ^{3.3}	1.28x10 ^{3.3}	2.56x10 ^{2.3}
			5/5	5/5	5/5	5/5	5/5	0/5	0/5	not tested
	B/Phuket/3073/2013	1x10 ^{9.9}	2x10 ^{8.9}	4x10 ^{7.9}	8x10 ^{6.9}	1.6x10 ^{6.9}	3.2x10 ^{5.9}	6.4x10 ^{4.9}	1.28x10 ^{4.9}	2.56x10 ^{3.9}
			5/5	5/5	5/5	2/5	0/5	0/5	not tested	not tested

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A(H3N2)	A/Perth/16/2009	1x10 ^{8.3}	2x10 ^{7.3}	4x10 ^{6.3}	8x10 ^{5.3}	1.6x10 ^{4.3}	3.2x10 ^{3.3}	6.4x10 ^{2.3}	1.28x10 ^{1.3}	2.56x10 ^{0.3}
			5/5	5/5	5/5	5/5	5/5	1/5	0/5	0/5
	A/Kansas/14/2017*	1x10 ^{8.9}	2x10 ^{7.9}	4x10 ^{6.9}	8x10 ^{5.9}	1.6x10 ^{4.9}	3.2x10 ^{3.9}	6.4x10 ^{2.9}	1.28x10 ^{1.9}	2.56x10 ^{0.9}
			5/5	5/5	5/5	5/5	5/5	1/5	0/5	0/5
A(H1N1)pdm09	A/Christ Church/16/2010	1x10 ^{9.9}	2x10 ^{8.9}	4x10 ^{7.9}	8x10 ^{6.9}	1.6x10 ^{5.9}	3.2x10 ^{4.9}	6.4x10 ^{3.9}	1.28x10 ^{2.9}	2.56x10 ^{1.9}
			5/5	5/5	5/5	5/5	5/5	5/5	0/5	0/5
	A/Brisbane/02/2018*	1x10 ^{7.9}	2x10 ^{6.9}	4x10 ^{5.9}	8x10 ^{4.9}	1.6x10 ^{3.9}	3.2x10 ^{2.9}	6.4x10 ^{1.9}	1.28x10 ^{0.9}	2.56x10 ^{-0.1}
			5/5	5/5	5/5	5/5	5/5	2/5	0/5	0/5
B (Victoria lineage)	B/Michigan/09/2011	1x10 ^{8.5}	2x10 ^{7.5}	4x10 ^{6.5}	8x10 ^{5.5}	1.6x10 ^{4.5}	3.2x10 ^{3.5}	6.4x10 ^{2.5}	1.28x10 ^{1.5}	2.56x10 ^{0.5}
			5/5	5/5	5/5	5/5	0/5	0/5	0/5	not tested
	B/Colorado/06/2017*	1x10 ^{8.3}	2x10 ^{7.3}	4x10 ^{6.3}	8x10 ^{5.3}	1.6x10 ^{4.3}	3.2x10 ^{3.3}	6.4x10 ^{2.3}	1.28x10 ^{1.3}	2.56x10 ^{0.3}
			5/5	5/5	5/5	5/5	4/5	0/5	0/5	not tested
B (Yamagata lineage)	B/New Hampshire/01/2016	1x10 ^{8.9}	2x10 ^{7.9}	4x10 ^{6.9}	8x10 ^{5.9}	1.6x10 ^{4.9}	3.2x10 ^{3.9}	6.4x10 ^{2.9}	1.28x10 ^{1.9}	2.56x10 ^{0.9}
			5/5	5/5	5/5	5/5	0/5	0/5	0/5	not tested
	B/Phuket/3073/2013*	1x10 ^{8.9}	2x10 ^{7.9}	4x10 ^{6.9}	8x10 ^{5.9}	1.6x10 ^{4.9}	3.2x10 ^{3.9}	6.4x10 ^{2.9}	1.28x10 ^{1.9}	2.56x10 ^{0.9}
			5/5	5/5	5/5	5/5	0/5	0/5	0/5	not tested

*CDC recommended strains for use in the 2019-2020 influenza season vaccine (northern hemisphere).