

The Influenza A+B Rapid Test Cassette is a rapid chromatographic immunoassay for the qualitative detection of influenza A and B antigens in nasopharyngeal swab, throat swab or nasal aspirate specimens. It is intended to aid in the rapid differential diagnosis of influenza A and B viral infections.

Influenza A Virus	Influenza B Virus
A/NWS/33 10(H1N1)	B/R5
A/Hong Kong/8/68(H3N2)	B/Russia/69
A/Port Chalmers/1/73(H3N2)	B/Lee/40
A/WS/33(H1N1)	B/Hong Kong/5/72

A/New Jersey/8/76(HswN1) A/Mal/302/54(H1N1) A/chicken/Yuyao/2/2006 (H5N1) A/swine/Hubei/251/2001 (H9N2) A/Duck/Hubei/216/1983(H7N8) A/Duck/Hubei/137/1982(H10N4) A/Anhui/1/2013 (H7N9)	
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Specificity Testing with Various Viral Strains

Description	Test Level
Human adenovirus C	5.62 x 10 ⁵ TCID50/ml
Human adenovirus B	1.58 x 10 ⁴ TCID50/ml
Adenovirus type 10	3.16 x 10 ³ TCID50/ml
Adenovirus type 18	1.58 x 10 ⁴ TCID50/ml
Human coronavirus OC43	2.45 x 10 ⁵ LD50/ml
Coxsackievirus A9	2.65 x 10 ⁴ LD50/ml
Coxsackievirus B5	1.58 x 10 ⁵ TCID50/ml
Coxsackievirus B5	1.58 x 10 ⁷ TCID50/ml
Human herpesvirus 5	1.58 x 10 ⁴ TCID50/ml
Echovirus 2	3.16 x 10 ⁵ TCID50/ml
Echovirus 3	1 x 10 ⁴ TCID50/ml
Echovirus 6	3.16 x 10 ⁶ TCID50/ml
Herpes simplex virus 1	1.58 x 10 ⁵ TCID50/ml
Human herpesvirus 2	2.81 x 10 ⁵ TCID50/ml
Human Rhinovirus 2	2.81 x 10 ⁴ TCID50/ml
Human Rhinovirus 14	1.58 x 10 ⁶ TCID50/ml
Human Rhinovirus 16	8.89 x 10 ⁵ TCID50/ml
Measles	1.58 x 10 ⁴ TCID50/ml
Mumps	1.58 x 10 ⁴ TCID50/ml
Sendai virus	8.89 x 10 ⁷ TCID50/ml
Parainfluenza virus 2	1.58 x 10 ⁷ TCID50/ml
Parainfluenza virus 3	1.58 x 10 ⁵ TCID50/ml
Respiratory syncytial virus	8.89 x 10 ⁴ TCID50/ml
Human respiratory syncytial virus	1.58 x 10 ⁵ TCID50/ml
Rubella	2.81 x 10 ⁵ TCID50/ml
Varicella-Zoster	1.58 x 10 ³ TCID50/ml

TCID50 = Tissue Culture Infectious Dose is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated.

LD50 = Lethal Dose is the dilution of virus that under the conditions of the assay can be expected to kill 50% of the suckling mice inoculated.

Precision

Intra-Assay & Inter-Assay

Within-run and Between-run precision has been determined by using five specimens of Influenza standard control. Three different lots of the Influenza Rapid Test Cassette (Swab/Nasal Aspirate) have been tested using negative, Influenza A weak, Influenza B Weak, Influenza A Strong and Influenza B Strong. Ten replicates of each level were tested each day for 3 consecutive days. The specimens were correctly identified >99% of the time.

Cross-reactivity










The following organisms were tested at 1.0x10⁵org/ml and all found to be negative when tested with the Influenza A+B Rapid Test Cassette (Swab/Nasal Aspirate):

<i>Arcanobacterium</i>	<i>Pseudomonas aeruginosa</i>
<i>Candida albicans</i>	<i>Staphylococcus aureus subsp aureus</i>
<i>Corynebacterium</i>	<i>Staphylococcus epidermidis</i>
<i>Enterococcus faecalis</i>	<i>Staphylococcus saprophylicus</i>
<i>Enterococcus faecium</i>	<i>Streptococcus agalactiae</i>
<i>Escherichia coli</i>	<i>Streptococcus bovis</i>
<i>Haemophilus</i>	<i>Streptococcus dysgalatiae / subsp.dysgalatiae</i>
<i>Moraxella catarrhalis</i>	<i>Streptococcus oralis formerly Streptococcus</i>
<i>Neisseria gonorrhoeae</i>	<i>Streptococcus pneumoniae</i>
<i>Neisseria lactamica</i>	<i>Streptococcus pyogenes</i>
<i>Nesseria subllava</i>	<i>Streptococcus salivarius</i>
<i>Proleus vulgaris</i>	<i>Streptococcus sp group F.type 2</i>

BIBLIOGRAPHY

- Williams, KM, Jackson MA, Hamilton M. (2002) Rapid Diagnostic Testing for URIs in Children; Impact on Physician Decision Making and Cost. *Infect. Med.* 19(3): 109-111.
- Betts, R.F. 1995. Influenza virus, p. 1546-1567. In G.L. Mandell, R.G. Douglas, Jr. and J.E. Bennett (ed.), *Principle and practice of infectious diseases*, 4th ed. Churchill Livingstone, Inc., New York, N.Y.
- WHO recommendations on the use of rapid testing for influenza diagnosis, World Health Organisation, July 2005.

Index of Symbols

	Attention, see instructions for use		Tests per kit		Authorized Representative
	For in vitro diagnostic use only		Use by		Do not reuse
	Store between 2-30°C		Lot Number	REF	Catalog #
	Do not use if package is damaged				

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