



INFLUENZA RESEARCH MATERIALS

Major disease outbreaks are associated with circulation of influenza virus types A and B in the human population. Infection with Influenza B virus is usually milder than infection with Influenza A virus, but both agents are major causes of upper respiratory illness.

The ATCC Virology Collection includes a number of examples of each virus type from a variety of sources. These are listed in the table below. ATCC has recently adapted several influenza strains

to tissue culture (TC) using MDCK cells (ATCC® CCL-34™). The new TC-adapted products include two swine-derived H1N1 viruses, two H3N2 subtypes and two influenza B viruses. These TC-adapted products join three popular strains already available. Three human-derived 2009 H1N1 viruses that were isolated in tissue culture at ATCC are also available. In addition, the Collection includes antisera to influenza A and several new monoclonal antibodies to highly pathogenic avian influenza hemagglutinins.

Influenza viruses

Description	Strain	ATCC® No.	Host
INFLUENZA A - HUMAN			
Influenza A virus (H1N1)	A1/Denver/1/57	VR-546™	Chicken embryo
Influenza A virus (H1N1)	A1/FM/1/47	VR-97™	Chicken embryo
Influenza A virus (H1N1)	A1/Mal/302/54	VR-98™	Chicken embryo
Influenza A virus (H1N1)	A/Fort Monmouth/1/1947	VR-1754™	Chicken embryo
Influenza A virus (H1N1)	A/New Jersey/8/76 (Hsw N1)	VR-897™	Chicken embryo
Influenza A virus (H1N1)	A/NWS/33	VR-219™	Chicken embryo
Influenza A virus (H1N1)	A/PR/8/34*	VR-95™	Chicken embryo
Influenza A virus (H1N1)	A/PR/8/34*	VR-1469™	MDCK cells (ATCC®CCL-34™)
Influenza A virus (H1N1)	A/Weiss/43	VR-96™	Chicken embryo
Influenza A virus (H1N1)	A/WS/33	VR-825™	Chicken embryo
Influenza A virus (H1N1)	A/WS/33	VR-1520™	MDCK cells (ATCC®CCL-34™)
Influenza A virus (H1N1)	A/Virginia/ATCC1/2009	VR-1736™	MDCK cells (ATCC®CCL-34™)
Influenza A virus (H1N1)	A/Virginia/ATCC2/2009	VR-1737™	MDCK cells (ATCC®CCL-34™)
Influenza A virus (H1N1)	A/Virginia/ATCC3/2009	VR-1738™	MDCK cells (ATCC®CCL-34™)
Influenza A virus (H3N2))	Alice (derived from MRC-2 [recombinant])	VR-776™	Chicken embryo
Influenza A virus (H3N2)	A2/Aichi/2/68*	VR-547™	Chicken embryo
Influenza A virus (H3N2)	A2/Aichi/2/68*	VR-1680™	MDCK cells (ATCC®CCL-34™)
Influenza A virus (H3N2)	A2/Hong Kong/8/68*	VR-544™	Chicken embryo
Influenza A virus (H3N2)	A2/Hong Kong/8/68*	VR-1679™	MDCK cells (ATCC®CCL-34™)
Influenza A virus (H3N2)	A/Port Chalmers/1/73	VR-810™	Chicken embryo
Influenza A virus (H3N2)	A/Victoria/3/75	VR-822™	Chicken embryo
Influenza A virus (H3N2)	MRC-2 (A/England/42/72 X A/PR/8/34)	VR-777™	Chicken embryo
INFLUENZA A - EQUINE			
Influenza A virus (H3N8)	A/ Equine/2/Miami/1/63	VR-317™	Chicken embryo
INFLUENZA A - SWINE			
Influenza A virus (H1N1)	A/Swine/1976/31	VR-99™	Chicken embryo
Influenza A virus (H1N1)	A/Swine/1976/31	VR-1682™	MDCK cells (ATCC®CCL-34™)
Influenza A virus (H1N1)	A/Swine/Iowa/15/30	VR-333™	Chicken embryo
Influenza A virus (H1N1)	A/Swine/Iowa/15/30	VR-1683™	MDCK cells (ATCC®CCL-34™)
INFLUENZA B - HUMAN			
Influenza B virus	B/Allen/45	VR-102™	Chicken embryo
Influenza B virus	B/Brigit	VR-786™	Chicken embryo
Influenza B virus	B/GL/1739/54	VR-103™	Chicken embryo
Influenza B virus	B/Hong Kong/5/72	VR-823™	Chicken embryo
Influenza B virus	B/Lee/40*	VR-101™	Chicken embryo

Influenza viruses (cont.)

Description	Strain	ATCC® No.	Host
Influenza B virus	B/Lee/40*	VR-1535™	MDCK cells (ATCC® CCL-34™)
Influenza B virus	B/Maryland/1/59	VR-296™	Chicken embryo
Influenza B virus	B/Mass/3/66	VR-523™	Chicken embryo
Influenza B virus	B/R5	VR-787™	Chicken embryo
Influenza B virus	B/R22 Barbara	VR-788™	Chicken embryo
Influenza B virus	B/R75	VR-789™	Chicken embryo
Influenza B virus	B/Russia/69	VR-790™	Chicken embryo
Influenza B virus	B/Taiwan/2/62	VR-295™	Chicken embryo
Influenza B virus	B/Taiwan/2/62	VR-1735™	MDCK cells (ATCC® CCL-34™)

* Recommended by FDA for analytical sensitivity (LoD) studies (Draft Guidance for Industry and FDA Staff - Establishing the Performance Characteristics of In Vitro Diagnostic Devices for the Detection and Differentiation of Influenza Viruses. Docket Number FDA-2008-D-0095).

Antisera

Description	Strain	ATCC® No.	Comments
Influenza A (H1N1) antiserum	Against A/Swine/1976/31 (ATCC® VR-99™)	VR-1289™	NIAID V-301-501-552
Influenza A (H3N8) antiserum	Against A/Equine/2/Miami/1/63 (ATCC® VR-317™)	VR-1287™	NIAID V-301-571-552
Influenza A antiserum	Against A2/Japan/170/62 (ATCC® VR-40™)	VR-1284™	NIAID V-301-541-552
Influenza A antiserum	Against A2/Taiwan/1/64 (ATCC® VR-480™)	VR-1285™	NIAID V-301-551-552

RNA from viruses

Description	Strain	ATCC® No.	Significance
Human Influenza A virus (H3N2)	A/Aichi/2/68	VR-1680D	H3N2
Swine Influenza A virus (H1N1)	A/Swine/1976/31	VR-1682D	H1N1
Swine Influenza A virus (H1N1)	A/Swine/Iowa/15/30	VR-1683D	H1N1
Human Influenza A virus (H1N1)	A/Virginia/ATCC1/2009	VR-1736D	2009 H1N1
Human Influenza A virus (H1N1)	A/Virginia/ATCC2/2009	VR-1737D	2009 H1N1
Human Influenza A virus (H1N1)	A/Virginia/ATCC3/2009	VR-1738D	2009 H1N1

Monoclonal antibodies

Description	Antigen	ATCC® No.	Comments
Monoclonal antibody 1F7 to Influenza A virus hemagglutinin H5 (HPAI)	Against H5 hemagglutinin from strain A/Hong Kong/483/1997 (H5N1)	VR-1608™	H5-specific
Monoclonal antibody 6D5 to Influenza A virus hemagglutinin H5 (HPAI)	Against H5 hemagglutinin from strain A/Hong Kong/483/1997 (H5N1)	VR-1609™	H5-specific
Monoclonal antibody 3D3 to Influenza A virus hemagglutinin H7	Against the HA1 domain of the H7 hemagglutinin from strain A/Chicken/Netherlands/1/03 (H7N7)	VR-1641™	H7-specific
Monoclonal antibody 1D8 to Influenza A virus hemagglutinin H9	Against the HA1 domain of the H9 hemagglutinin from strain A/Guinea Fowl/Hong Kong/WF10/99 (H9N2)	VR-1642™	H9-specific
Monoclonal antibody 5D3 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/South Carolina/1/1918 (H1N1)	VR-1668™	IgG2ak
Monoclonal antibody 58C4 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/South Carolina/1/1918 (H1N1)	VR-1672™	IgG2bk
Monoclonal antibody EB11 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/Brisbane/59/2007 (H1N1)	VR-1741™	IgG1k
Monoclonal antibody AE7 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/Brisbane/59/2007 (H1N1)	VR-1742™	IgG1k
Monoclonal antibody FB8 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/Brisbane/59/2007 (H1N1)	VR-1743™	IgG1k and IgG2bk

Host cell line

Description	Strain	ATCC® No.	Comments
Kidney; Dog (<i>Canis familiaris</i>)	MDCK (NBL-2)	CCL-34™	Recommended host for ATCC® VR-1469™, VR-1520™, VR-1535™, VR-1679™, VR-1680™, VR-1682™, VR-1683™, VR-1735™, VR-1736™, VR-1737™, VR-1738™

PHONE

800.638.6597
703.365.2700

EMAIL

sales@atcc.org
tech@atcc.org

WEB

www.atcc.org



ATCC™

See our online catalog at www.atcc.org for a full description of each item.

18081 University Blvd.
Manassas, VA 20110

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