

Influenza A(H1N1)pdm09 cell culture-derived¹ candidate vaccine viruses, candidate recombinant vaccine antigen(s), and candidate nucleic acid-based vaccine construct(s) for the development and production of vaccines for use in the 2026 southern hemisphere influenza season

Human influenza virus isolation using a certified cell line (e.g. MDCK 33016 PF^a, NIID-MDCK^b) has been performed by WHO Collaborating Centres (CCs) of the WHO Global Influenza Surveillance and Response System (GISRS). The WHO CCs also perform antigenic and genetic analysis on the cell cultured Candidate Vaccine Viruses (ccCVVs). Unless otherwise specified, these ccCVVs have passed two-way haemagglutination inhibition (HI) or virus neutralization (VN) tests against the cell culture propagated prototype viruses matching the WHO recommendation². **No other testing (including adventitious agents) has been performed** on these ccCVVs by the WHO CCs. National or regional control authorities generally approve the manufacture, composition and formulation of influenza vaccines used in each country³. Manufacturers should consult relevant national or regional control authorities regarding the suitability of using these ccCVVs for influenza vaccine production.

^a Derived from MDCK cell line approved for use for human vaccine manufacture in compliance with Ph. Eur. general chapter 5.2.3 by Novartis/Seqirus

^b Derived from MDCK cell line developed by the National Institute of Infectious Diseases (NIID), Japan

26 September 2025 (last updated 01 October 2025)

Cell culture-based candidate vaccine viruses (ccCVVs), antigenically-like A/Missouri/11/2025 (MDCK SIAT cell-derived) - Accession number (GISAID):EPI_ISL_20077100

ccCVV	Candidate Vaccine Virus	Type of virus or reassortant	Certified cell line used for isolation and propagation	Developing institute	Passage level available	Available from
A/Nebraska/21/2025*	Wild type virus		MDCK 33016 PF	CDC, USA	P1 or P2	CDC, USA pending
A/South Queensland/47/2025*	Wild type virus		MDCK 33016 PF	VIDRL, Australia	P2	VIDRL, Australia Pending
A/Sydney/78/2025*	Wild type virus				P2	
A/Tasmania/318/2025*	Wild type virus				P2	
	CVR-359*		QMC2/QMC8			

* Two-way antigenic testing pending

‡ New CVV shown in blue

¹ For egg-derived candidate vaccine viruses and reference reagents please see <https://www.who.int/teams/global-influenza-programme/vaccines/who-recommendations/candidate-vaccine-viruses>

² <https://www.who.int/teams/global-influenza-programme/vaccines/who-recommendations>

³ <https://www.who.int/initiatives/who-listed-authority-reg-authorities>

For recombinant protein- or nucleic acid-based vaccines, it is recommended that the protein sequence(s) closely matches the sequence of A/Missouri/11/2025 (MDCK SIAT cell-derived).

Institutes contact details for candidate vaccine virus orders/information:

CDC: InfluenzaVirusSurveillance@cdc.gov (Subject: CVV request)

VIDRL: enquiries@influenzacentre.org

Reference antigens (freeze dried) – to be updated

Parent virus	Starting materials		Ref Ag Lot number	Unitage (µg HA/ml)	Available from
	Candidate vaccine virus	Egg or cell			

Sheep antisera – to be updated

Purified HA from		Order lot number	Available from
Parent virus	Egg or cell		

WHO Essential Regulatory Laboratories (ERLs) contact details for reagent orders and other information:

MHRA: standards@mhra.gov.uk or enquiries@mhra.gov.uk

TGA: influenza.reagents@tga.gov.au

For reagents available from CBER, email CBERShippingRequests@fda.hhs.gov.

For information of other type and subtype candidate vaccine viruses and potency testing reagents, please go to: (<https://www.who.int/teams/global-influenza-programme/vaccines/who-recommendations/candidate-vaccine-viruses>).

For general enquiries, please contact gisrs-whohq@who.int