

Influenza B Victoria lineage cell culture-derived¹ candidate vaccine viruses or recombinant vaccine antigen(s) for development and production of vaccines for use in the 2026-2027 northern 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) 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

27 February 2026 (Last updated 11 March 2026)

Cell culture-based candidate vaccine viruses (ccCVVs), antigenically like B/Pennsylvania/14/2025 (MDCK cell-derived) - Accession number (GISAID): EPI_ISL_20077099

ccCVV	Certified cell line used for isolation and propagation	Developing institute	Passage level available	Available from
B/Tokyo/EIS13-011/2025	NIID-MDCK	NIID, Japan	P2	NIID, Japan
B/Kanagawa/AC2414/2025	NIID-MDCK	NIID, Japan	P2	NIID, Japan
B/Arizona/21/2025*	MDCK 33016 PF	CDC, USA	P1 or P2	CDC, USA

**New CVV shown in blue*

For recombinant protein- or nucleic acid-based vaccines, it is recommended that the protein sequence(s) closely matches the sequence of B/Pennsylvania/14/2025 (MDCK cell-derived)

Institutes contact details for candidate vaccine virus orders/information:

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

NIID: flu-vaccine@nih.go.jp

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>

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	Available from
Parent virus	Egg or Cell	Lot number	

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

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

NIID: flu-vaccine@nih.go.jp

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