

Influenza A(H1N1)pdm09 egg-derived¹ candidate vaccine viruses for development and production of vaccines for use in the 2021 southern hemisphere influenza season

Antigenic and genetic analyses are performed by the WHO Collaborating Centres of the Global Influenza Surveillance and Response System (GISRS). Unless otherwise specified, all candidate vaccine viruses posted on this table have passed two-way haemagglutination inhibition (HI) test. [National or Regional control authorities approve the composition and formulation of vaccines used in each country](#)²

25 September 2020 (Last updated on 5 October 2020)

Candidate vaccine viruses (CVVs) (antigenically like A/Victoria/2570/2019)

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
A/Indiana/02/2020	Wild type virus			WHO CCs and WHO ERLs
	X-349*	Classical	NYMC	NYMC, USA
	X-349A*	Classical	NYMC	NYMC, USA
A/Victoria/2570/2019	Wild type virus			WHO CCs and WHO ERLs
	IVR-215	classical	Seqirus	WHO CCs and WHO ERLs
A/Victoria/3/2020	Wild type virus			WHO CCs and WHO ERLs
	IVR-216	classical	Seqirus	
A/Victoria/1/2020	Wild type virus			WHO CCs and WHO ERLs
	IVR-217	classical	Seqirus	

** New CVV shown in blue*

WHO CCs and ERLs contact details for candidate vaccine viruses orders/information:

CCDC: whocc-china@cnic.org.cn
CDC: pdx1@cdc.gov (Subject: CVV request)
FCI: whocc@crick.ac.uk
NIBSC: standards@nibsc.org or enquiries@nibsc.org
NIID: flu-vaccine@nih.go.jp
VIDRL: whoflu@influenzacentre.org

¹ For cell-derived candidate vaccine viruses and reference reagents please see https://www.who.int/influenza/vaccines/virus/candidates_reagents/home/en/

² https://www.who.int/immunization_standards/national_regulatory_authorities%20/offices/

Reference antigens (freeze dried) – To be updated

Parent virus	Starting materials		Ref Ag Lot number	Unitage (µgHA/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		

ERLs contact details for reagents orders/information:

CBER: CBERshippingrequests@fda.hhs.gov

NIBSC: standards@nibsc.org or enquiries@nibsc.org

NIID: flu-vaccine@nih.go.jp

TGA: influenza.reagents@health.gov.au

For other candidate vaccine viruses and potency testing reagents, please go to
http://www.who.int/influenza/vaccines/virus/candidates_reagents/home/en/

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