

Influenza A(H3N2) candidate vaccine viruses for development and production of vaccines for use in the northern hemisphere 2016-2017 influenza season

Antigenic and genetic analyses are performed by the WHO Collaborating Centres of the Global Influenza Surveillance and Response System (GISRS). Unless otherwise indicated all candidate vaccine viruses posted on this table have passed two-way haemagglutination inhibition (HI) test. National or regional control authorities¹ approve the composition and formulation of vaccines used in each country.

25 February 2016 (last updated 29 February 2016)

Candidate vaccine viruses (antigenically like A/Hong Kong/4801/2014)

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
A/Victoria/673/2014	Wild type virus			VIDRL, Australia NIID, Japan FCI, UK
	NIB-92[#]	Classical	NIBSC, UK	VIDRL, Australia NIID, Japan FCI, UK NIBSC, UK
A/New Caledonia/71/2014	Wild type virus			VIDRL, Australia NIID, Japan CDC, USA NYMC, USA
	NIB-91[#]	Classical	NIBSC, UK	NIID, Japan NIBSC, UK
	IVR-178[#]	Classical	Seqirus, Australia	VIDRL, Australia NIID, Japan FCI, UK NIBSC, UK CDC, USA
	X-257A	Classical	NYMC, USA	NIID, Japan NIBSC, UK CDC, USA NYMC, USA
A/Hong Kong/7127/2014	Wild type virus			NIID, Japan FCI, UK NIBSC, UK CBER, USA CDC, USA NYMC, USA

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¹ http://www.who.int/immunization_standards/national_regulatory_authorities%20/offices/en/

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Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
	NIB-93[#]	Classical	NIBSC, UK	NIID, Japan FCI, UK NIBSC, UK
	X-261	Classical	NYMC, USA	NIID, Japan FCI, UK NIBSC, UK CDC, USA NYMC, USA
A/Hong Kong/4801/2014	Wild type virus			NIID, Japan FCI, UK NIBSC, UK NYMC, USA CBER, USA CDC, USA
	X-263[#]	Classical	NYMC, USA	NIID, Japan NIBSC, UK CDC, USA NYMC, USA
	X-263A	Classical	NYMC, USA	NIID, Japan FCI, UK NIBSC, UK CDC, USA NYMC, USA
	X-263B	Classical	NYMC, USA	NIID, Japan FCI, UK NIBSC, UK

Reference antigens (freeze-dried)

Parent virus	Starting materials		Ref Ag Lot number	Unitage (µgHA/ml)	Available from
	Candidate vaccine virus	Egg or cell			
A/New Caledonia/71/2014	X-257A	Egg	15/238	60	NIBSC, UK
			2015/107B	84	TGA, Australia
A/Hong Kong/4801/2014	NYMCX-263B	Egg	15/230	67	NIBSC, UK

Sheep Antisera

Purified HA from		Order number	Available from
Parent virus	Egg or Cell		
A/Hong Kong/4801/2014-like	Egg	15/236	NIBSC, UK

Institutes contact details for candidate vaccine virus orders/information:

CBER: <http://www.fda.gov/cber>

CDC: xxu@cdc.gov

FCI: whocc@crick.ac.uk

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

NIID: flu-vaccine@nih.go.jp

NYMC: doris_bucher@nymc.edu

VIDRL: whoflu@influenzacentre.org

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