

Influenza A(H3N2) candidate vaccine viruses and potency testing reagents for development and production of vaccines for use in the northern hemisphere 2014-2015 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 authorities approve the composition and formulation of vaccines used in each country](#)

20 February 2014 (*last updated 29 September 2014*)

Candidate vaccine viruses

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
A/Texas/50/2012	Wild type virus			WHO CCs NIBSC, UK
	X-223A	Classical	NYMC, USA	CDC, USA NYMC, USA NIBSC, UK
	X-223	Classical	NYMC, USA	CDC, USA NYMC, USA NIBSC, UK
A/New York/39/2012	Wild type virus			WHO CCs
	X-233	Classical	NYMC, USA	CDC, USA NYMC, USA NIBSC, UK
	X-233A	Classical	NYMC, USA	CDC, USA NYMC, USA NIBSC, UK
A/Almaty/2958/2013	Wild type virus			NIMR, UK
	NIB-85	Classical	NIBSC, UK	NIBSC, UK

Institutes contact details for candidate vaccine viruses orders/information:CDC: xxu@cdc.govNIBSC: standards@nibsc.org or enquiries@nibsc.orgNYMC: doris_bucher@nymc.eduWHO CCs: http://www.who.int/influenza/gisrs_laboratory/collaborating_centres/list/en/**Reference antigens (freeze-dried)**

Parent virus	Starting materials		Ref Ag / Lot number	Unitage (µgHA/mL)	Available from
	CVV	Egg or Cell			
A/Texas/50/2012	NYMC X-223	Egg	13/112	74	NIBSC
	NYMC X-223A	Egg	13/116	49	NIBSC
	NYMC X-223A	Cell	13/162	72	NIBSC, UK

Sheep antisera

Purified HA from		Order Lot number	Available from
Parent virus	Egg or Cell		
A/Texas/50/2012	Egg	13/178	NIBSC, UK

The above-listed potency testing reagents have been developed with support from manufacturers, and calibrated by the WHO Essential Regulatory Laboratories (ERLs) of the Global Influenza Surveillance and Response System (GISRS).

ERLs contact details for reagents orders/information:NIBSC: standards@nibsc.org or enquiries@nibsc.orgTGA: influenza.reagents@tga.gov.auNIID: flu-vaccine@nih.go.jpCBER/FDA: CBERShippingRequests@fda.hhs.govFor general enquiries, please contact gisrs-whohq@who.int

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