

## Influenza A(H3N2) candidate vaccine viruses for development and production of vaccines for use in the northern hemisphere 2015-2016 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](#)

**26 February 2015 (last updated 14 September 2015)**

### Candidate vaccine viruses

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
<b>A/Switzerland/9715293/2013</b>	Wild type virus			CDC, USA NIMR, UK VIDRL, Australia
	<b>NIB-88</b>	Classical	NIBSC, UK	NIBSC, UK
	<b>NYMC X-247</b>	Classical	NYMC, USA,	CDC, USA NIMR, UK NYMC, USA, NIBSC, UK
<b>A/South Australia/55/2014</b>	Wild type virus			CDC, USA NIBSC, UK NIID, Japan NIMR, UK VIDRL, Australia
	<b>IVR-175</b>	Classical	bioCSL, Australia	WHO CCs, ERLs
<b>A/Stockholm/6/2014</b>	Wild type virus			CDC, USA NIID, Japan NIMR, UK VIDRL, Australia NIBSC, UK

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
A/Norway/466/2014	Wild type virus			CDC, USA NIBSC, UK NIID, Japan NIMR, UK VIDRL, Australia

**Institutes contact details for candidate vaccine viruses orders/information:**

CDC: [xxu@cdc.gov](mailto:xxu@cdc.gov)  
NIBSC: [standards@nibsc.org](mailto:standards@nibsc.org) or [enquires@nibsc.org](mailto:enquires@nibsc.org)  
NIID: [flu-vaccine@nih.go.jp](mailto:flu-vaccine@nih.go.jp)  
NIMR: [whocc@nimr.mrc.ac.uk](mailto:whocc@nimr.mrc.ac.uk)  
NYMC: [doris\\_bucher@nymc.edu](mailto:doris_bucher@nymc.edu)  
TGA: [influenza.reagents@tga.gov.au](mailto:influenza.reagents@tga.gov.au)  
VIDRL: [whoflu@influenzacentre.org](mailto:whoflu@influenzacentre.org)

The list of all WHO Collaborating Centres (CCs) and Essential Regulatory Laboratories (ERLs) for influenza can be found on the WHO web site at  
[http://www.who.int/influenza/gisrs\\_laboratory/collaborating\\_centres/list/en/](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
	Candidate vaccine virus	Egg or cell			
A/Switzerland/9715293/2013	NIB-88	Egg	14/254	55	NIBSC, UK
			*2015AH3A	56	NIID Japan
			*2015AH3B	52	
A/South Australia/55/2014	IVR-175	Egg	2014/102B	88	TGA, Australia
			*2015/106B	93	

\*New reference antigens

## Sheep antisera

Purified HA from		Order Lot number	Available from
Parent virus	Egg or Cell		
A/Switzerland/ 9715293/2013	Egg	14/272	NIBSC, UK
A/Switzerland/ 9715293/2013 (NIB-88)		*2015AH3-1	NIID Japan
A/South Australia/55/2014	Egg	*AS 408	TGA, Australia

**\*New sheep antisera**

**ERLs contact details for reagents orders/information:**

NIBSC: [standards@nibsc.org](mailto:standards@nibsc.org) or [enquiries@nibsc.org](mailto:enquiries@nibsc.org)

TGA: [influenza.reagents@tga.gov.au](mailto:influenza.reagents@tga.gov.au)

NIID: [flu-vaccine@nih.go.jp](mailto:flu-vaccine@nih.go.jp)

For general enquiries, please contact [gisrs-whohq@who.int](mailto:gisrs-whohq@who.int)

For other candidate vaccine viruses and potency testing reagents, please go to [http://www.who.int/influenza/vaccines/virus/candidates\\_reagents/home/en/](http://www.who.int/influenza/vaccines/virus/candidates_reagents/home/en/)