

## Influenza B Victoria lineage 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>B/Brisbane/33/2008</b>	Wild type virus			NIBSC, UK	
<b>B/Brisbane/60/2008</b>	Wild type virus			WHO CCs NIBSC, UK	
	<b>NIB-58</b>	Classical	NIBSC, UK	NIBSC, UK	
	<b>NYMC BX-31<sup>#</sup></b>		New York Medical College, (NYMC) USA	NYMC, USA NIBSC, UK	
	<b>NYMC BX-31B<sup>#</sup></b>			NYMC, USA	
	<b>NYMC BX-31-CL<sup>#</sup></b>			NYMC, USA CDC, USA	
	<b>NYMC BX-33<sup>##</sup></b>			NYMC, USA CDC, USA	
	<b>NYMC BX-33B<sup>##</sup></b>			NYMC, USA NIID, Japan	
	<b>NYMC BX-35<sup>###</sup></b>			NYMC, USA NIBSC, UK NIID, Japan	
<b>B/Bangladesh/5945/2009</b>	<b>NYMC BX-37<sup>##</sup></b>				
<b>B/HongKong/259/2010</b>	Wild type virus				CDC, USA
	<b>NYMC BX-43<sup>#</sup></b>	Classical	NYMC, USA	NYMC, USA	
	<b>NYMC BX-43A<sup>#</sup></b>		NYMC, USA	NYMC, USA	
	<b>NYMC BX-43B<sup>#</sup></b>		NYMC, USA	NYMC, USA	

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
<b>B/Nevada/3/2011</b>	Wild type virus			CDC, USA
	<b>NYMC BX-47<sup>##</sup></b>	Classical	NYMC, USA	NYMC, USA CDC, USA
<b>B/Texas/2/2013</b>	Wild type virus			CDC, USA
	<b>BX-53A<sup>###</sup></b>	Classical	NYMC, USA	NYMC, USA CDC, USA
	<b>BX-53B<sup>###</sup></b>		NYMC, USA	NYMC, USA CDC, USA
	<b>BX-53C<sup>###</sup></b>		NYMC, USA	NYMC, USA CDC, USA

<sup>#</sup> B/Lee/40 backbone parent

<sup>##</sup> B/Panama/45/90 backbone parent

<sup>###</sup> B/Lee/40 and B/Panama/45/90 backbone parents

#### 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 [enquiries@nibsc.org](mailto:enquiries@nibsc.org)

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

NYMC: [doris\\_bucher@nymc.edu](mailto:doris_bucher@nymc.edu)

#### Reference antigens (freeze-dried)

Parent virus	Starting materials		Ref Ag Lot number	Unitage (µgHA/ml)	Available from
	Candidate vaccine virus	Egg or cell			
<b>B/Brisbane/60/2008</b>	Wild type	Egg	13/234	48	NIBSC, UK
			14/146	34	
<b>B/Texas/2/2013</b>	Wild type	Egg	*2015BVA	62	NIID Japan
			*2015BVB	52	

\*New reference antigens

## Sheep antisera

Purified HA from		Order Lot number	Available from
Parent virus	Egg or Cell		
B/Brisbane/60/2008	Egg	13/254	NIBSC, UK, TGA Australia
		*AS397-2	
		*2015BV-1	NIID Japan

### \*New sheep antisera

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](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)

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/)

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/)