

Influenza B Yamagata lineage egg-derived¹ candidate vaccine viruses for development and production of vaccines for use in the 2017 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 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](#)

29 September 2016 (*last updated 18 October 2016*)

Candidate vaccine viruses

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
B/California/12/2015	BX-59A	Classical	NYMC	NYMC, USA CDC, USA
	BX-59B	Classical	NYMC	NYMC, USA CDC, USA
	Wild type virus			CDC, USA
B/Phuket/3073/2013	Wild type virus			WHO CCs WHO ERLs NIBSC, UK
B/Brisbane/9/2014	Wild type virus			WHO CCs WHO ERLs NIBSC, UK
B/Utah/09/2014	Wild type virus			CDC, USA
B/Arizona/10/2015	Wild type virus			CDC, USA NIBSC, UK
B/Hong Kong/432/2013	Wild type virus			NYMC, USA CDC, USA
B/Hong Kong/3417/2013	Wild type virus			NYMC, USA CDC, USA
	BX-57	Classical	NYMC	

Institutes contact details for candidate vaccine viruses orders/information:

CDC: xxu@cdc.gov

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

NYMC: doris_bucher@nymc.edu

WHO CCs and ERLs: http://www.who.int/influenza/gisrs_laboratory/collaborating_centres/list/

¹ For cell culture-derived candidate vaccine viruses and reference reagents please see http://www.who.int/influenza/vaccines/virus/candidates_reagents/summary_b_yam_cvv-cell_sh17.pdf

Reference antigens (freeze-dried)

Parent virus	Starting materials		Ref Ag Lot number	Unitage (µgHA/ml)	Available from
	Candidate vaccine virus	Egg or cell			
B/Phuket/3073/2013	Wild type	Egg	14/252	32	NIBSC, UK
			2014/103B	83	TGA, Australia
			2015105B	80	
			2015BYA	62	NIID Japan
			2015BYB	61	
B/Brisbane/9/2014	Wild type	Egg	14/274	42	NIBSC, UK
B/Utah/9/2014	Wild type	Cell	15/100	40	NIBSC, UK

Sheep antisera

Purified HA from		Order Lot number	Available from
Parent virus	Egg or Cell		
B/Phuket/3073/2013	Egg	14/248	NIBSC, UK
		2015BY-1	NIID Japan
B/Wisconsin/1/2010 (BY-41A)	Egg	AS402/AS402-1	TGA, Australia
		AS409 [#]	

[#] Used to calibrate B/Phuket/30173/2014 2015/105B

ERLs contact details for reagents orders/information:

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

NIID: flu-vaccine@nih.go.jp

TGA: influenza.reagents@tga.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