

Influenza B Yamagata lineage egg-derived¹ candidate vaccine viruses for development and production of vaccines for use in the 2019 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](#)

27 September 2018

Candidate vaccine viruses

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
B/Phuket/3073/2013	Wild type virus			WHO CCs WHO ERLs
	BVR-1B	Classical	Seqirus	VIDRL, Australia
B/California/12/2015	Wild type virus			CDC, USA
	NYMC BX-59A	Classical	NYMC	NYMC, USA CDC, USA NIBSC, UK
	NYMC BX-59B	Classical	NYMC	NYMC, USA CDC, USA NIBSC, UK
B/Brisbane/9/2014	Wild type virus			WHO CCs WHO ERLs
B/Utah/09/2014	Wild type virus			CDC, USA NIBSC, UK
B/Hong Kong/432/2013	Wild type virus			NYMC, USA CDC, USA
B/Arizona/10/2015	Wild type virus			CDC, USA NIBSC, UK
	NYMC BX-63A	Classical	NYMC, USA	NYMC, USA NIBSC, UK
B/Hong Kong/3417/2013	Wild type virus			NYMC, USA CDC, USA
	NYMC BX-57	Classical	NYMC	

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_sh19.pdf

Institutes contact details for candidate vaccine virus orders/information:

CDC: dwentworth@cdc.gov (Subject: CVV request)
NIBSC: standards@nibsc.org or enquiries@nibsc.org
NYMC: doris_bucher@nymc.edu
VIDRL: whoflu@influenzacentre.org
WHO CCs and ERLs: http://www.who.int/influenza/gisrs_laboratory/collaborating_centres

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	16/158	60	NIBSC, UK
			2017/115B	85	TGA, Australia
			2018BYA	55	NIID, Japan
			2018BYB	64	
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	15/150	NIBSC, UK
		2017BY-1	NIID, Japan
B/Wisconsin/1/2010 (BX-41A)	Egg	AS402/AS402-1	TGA, Australia
		AS409#	

Used to calibrate B/Phuket/3073/2014 lots 2015/105B, 2017/115B.

ERLs contact details for reagents orders/information:

NIBSC: standards@nibsc.org or enquiries@nibsc.org
NIID: flu-vaccine@nih.go.jp
TGA: influenza.reagents@health.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