

Influenza B Yamagata lineage egg-derived¹ candidate vaccine viruses for development and production of vaccines for use in the 2020-2021 northern 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](#)²

28 February 2020 (Last updated 12 June 2020)

Candidate vaccine viruses (antigenically like B/Phuket/3073/2013)

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

Institutes contact details for candidate vaccine virus orders/information:

CCDC: whocc-china@cnic.org.cn

CDC: dwentworth@cdc.gov (Subject: CVV request)

¹ For cell-derived candidate vaccine viruses and reference reagents please see

https://www.who.int/influenza/vaccines/virus/candidates_reagents/home/en/

² https://www.who.int/immunization_standards/national_regulatory_authorities%20offices/

FCI: whocc@crick.ac.uk
 NIBSC: standards@nibsc.org or enquiries@nibsc.org
 NIID: flu-vaccine@nih.go.jp
 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 (µg HA/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	
	BVR-1B	Egg	2017/117B	78	TGA, Australia
B/Utah/9/2014	Wild type	Cell	15/100	40	NIBSC, UK
B/Singapore/INFTT-16-0610/2016	Wild type	Cell	19/308*		NIBSC, UK

* *New reagents*

[#] *low stock, no replacement planned*

Sheep antisera

Purified HA from		Order Lot number	Available from
Parent virus	Egg or Cell		
B/Phuket/3073/2013	Egg	17/214	NIBSC, UK
		2017BY-1	NIID, Japan
		AS425	TGA, Australia
B/Wisconsin/1/2010 (BX-41A)	Egg	AS402/AS402-1	TGA, Australia
		AS426	

ERLs contact details for reagents orders/information:

CBER: CBERShippingrequests@fda.hhs.gov
 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