

Summary of status of development and availability of A(H7) candidate vaccine viruses and potency testing reagents*

20 February 2019

Candidate vaccine viruses

Subtype	Antigenic prototype	Clade	Candidate vaccine virus	Type of virus or reassortant	Developing Institute	Available from
H7N1	A/mallard/Netherlands/12/2000[#]	Eurasian	Wild type virus			WHO CCs
			NIBRG-63*	Reverse genetics	NIBSC, UK	NIBSC, UK
	A/turkey/Italy/3889/99	Eurasian	Wild type virus			NIBSC, UK
H7N2	A/turkey/Virginia/4529/2002	American	Wild type virus			WHO CCs
			IBCDC-5*	Classical reassortant	CDC, USA	CDC, USA
	A/New York/107/2003	American	Wild type virus			WHO CCs
			NIBRG-109*	Reverse genetics	NIBSC, UK	NIBSC, UK
H7N3	A/Canada/rv444/2004	American	Wild type virus			WHO CCs
			161984-B*	Reverse genetics	SJCRH, USA	SJCRH, USA CDC, USA
	A/mallard/Netherlands/12/2000	Eurasian	Wild type virus			WHO CCs
			NIBRG-60*	Reverse genetics	NIBSC, UK	NIBSC, UK
H7N7	A/mallard/Netherlands/12/2000 and A/mallard/Netherlands/2/2000	Eurasian	Wild type viruses			WHO CCs
			IBCDC-1*	Classical reassortant	CDC, USA	CDC, USA

[#] HA from A/mallard/Netherlands/12/2000 and NA from A/mallard/Netherlands/2/2000

*These viruses are candidate vaccine viruses which have passed relevant safety testing and two-way haemagglutination inhibition (HI) tests. They can be handled under BSL-2 enhanced containment¹.

¹ <http://www.who.int/biologicals/publications/trs/areas/vaccines/influenza/Annex%205%20human%20pandemic%20influenza.pdf?ua=1>

Candidate vaccine viruses in preparation

Subtype	Antigenic prototype	Clade	Developing Institute	Available from
H7N4	<i>A/chicken/Jiangsu/1/2018-like[#]</i>	Eurasian	CCDC, China	Pending

[#]New candidate vaccine virus in preparation, shown in blue

Reference antigens (freeze-dried)

Parent virus	Starting materials		Ref Ag / Lot number	Unitage (µgHA/mL)	Available from
	CVV	Egg or Cell			
A/mallard/Netherlands/12/2000	NIBRG-60	Egg	07/336	115	NIBSC, UK
A/New York/107/2003	NIBRG-109	Egg	08/362	To be announced	NIBSC, UK

Sheep antisera

Purified HA from		Order Lot number	Available from
Parent virus	Egg or Cell		
A/mallard/Netherlands/12/2000	Egg	07/278	NIBSC, UK
A/New York/107/2003	Egg	09/148	NIBSC, UK
A/chick/Italy/1374/99 (H7N1)	Egg	02/294	NIBSC, UK

Institutes and contact details for candidate vaccine virus orders and other information:

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

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

SJCRH: richard.webby@stjude.org

CCDC: whocc-china@cnic.org.cn

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

Candidate vaccine viruses and potency testing reagents for influenza A(H7N9) can be found on the WHO web site at http://www.who.int/influenza/vaccines/virus/candidates_reagents/a_h7n9/en/

For information of other type and subtype candidate vaccine viruses and potency testing reagents, please go to: <http://www.who.int/influenza/vaccines/virus/en/>

For general enquiries, please contact gisrs-whohq@who.int