World Health Organization

Summary of status of development and availability of A(H9N2) candidate vaccine viruses and potency testing reagents

5 March 2018

Candidate vaccine viruses

Antigenic prototype	Clade	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
A/Hong Kong/1073/99	G1	Wild type virus			NIBSC, UK
A/chicken/Hong Kong/ G9/97	Y280/G9	Wild type virus			WHO CCs
		NIBRG-91*	Reverse genetics	NIBSC, UK	NIBSC, UK
		IBCDC-2*	Classical reassortant	CDC, USA	CDC, USA
A/Hong Kong/33982/ 2009	G1	Wild type virus			WHO CCs
		IBCDC-RG26*	Reverse genetics	CDC, USA	CDC, USA
A/Bangladesh/994/ 2011	G1	Wild type virus			WHO CCs
		IDCDC-RG31*	Reverse genetics	CDC, USA	CDC,USA
A/Hong Kong/308/2014	Y280/G9	Wild type virus			WHO CCs
		SJ008*	Reverse genetics	SJCRH, USA	SJCRH, USA

* 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 containment[1].

[1] http://www.who.int/biologicals/areas/vaccines/influenza/biosafety_risk_assessment_10may2013.pdf

Reference antigens (freeze-dried)

Parent virus	Starting Materials		Ref Ag / Lot number	Unitage (µgHA/mL)	Available from
	CVV	Egg or Cell			
A/chicken/Hong Kong/ G9/97	**NIBRG-91**	Egg	08/228	84 ug/ml	NIBSC, UK
A/Hong Kong/1073/99	**Wild-type**	Egg	08/208	To be announced	NIBSC, UK

Sheep antisera

Purified HA from		Order Lot number	Available from
Parent virus	Egg or Cell		
A/Hong Kong/1073/99	Egg	07/146	NIBSC, UK
	Egg	10/214[§]	NIBSC, UK
A/chicken/Hong Kong/G9/97	Egg	08/202	NIBSC, UK

[§] Anti NA serum for tests of neuraminidase identification

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

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

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/