

Summary of status of development and availability of A/California/7/2009 (H1N1)-like* candidate vaccine viruses** and potency testing reagents

24 May 2010

Candidate vaccine viruses

Parent virus	Candidate vaccine virus	Type of virus or reassortant	Developing institute	Available from
A/California/7/2009(H1N1)	Wild type virus			WHO CCs NIBSC, UK
	X-179A	Classical	New York Medical College, USA	CDC, USA NIBSC, UK
	IVR-153		CSL, Australia	CSL, Australia NIBSC, UK
	X-181 X-181A		New York Medical College, USA	New York Medical College, USA NIBSC, UK
	NIBRG-121 NIBRG-121xp	Reverse Genetics	NIBSC, UK	NIBSC, UK
	NIIDRG-5		NIID, Japan	NIID, Japan
	A/California/4/2009(H1N1)	Wild type virus		
CBER-RG2		Reverse Genetics	CBER/FDA, USA	CDC, USA
A/Texas/5/2009(H1N1)	Wild type virus			WHO CCs
	IDCDC-RG15	Reverse Genetics	CDC, USA	CDC, USA
	IDCDC-RG20			CDC, USA
A/England/195/2009(H1N1)	Wild type virus			WHO CCs NIBSC, UK
	NIBRG-122	Reverse Genetics	NIBSC, UK	NIBSC, UK
A/Texas/5/2009(H1N1) and A/New York/18/2009(H1N1)	IDCDC-RG18	Reverse Genetics	CDC, USA	CDC, USA
A/New York/18/2009(H1N1)	Wild type virus			WHO CCs NIBSC, UK
	IDCDC-RG22	Reverse Genetics	CDC, USA	CDC, USA

Details of individual candidate reassortant vaccine viruses and instructions of how to obtain them can be found on the WHO web site at <http://www.who.int/csr/disease/swineflu/guidance/vaccines/candidates/en/index.html>

*Antigenic and genetic analysis performed by the WHO Collaborating Centre for surveillance, epidemiology and control of influenza or by WHO Collaborating Centres for reference and research on influenza.

** National or Regional control authorities approve the composition and formulation of vaccines used in each country http://www.who.int/immunization_standards/national_regulatory_authorities%20offices/en/

Reference antigens (freeze-dried)

Parent virus	Starting materials		Ref Ag Lot #	Unitage (µgHA/mL)	Available from
	Candidate vaccine virus	Egg or Cell			
A/California/7/2009(H1N1)	NYMC X-179A	Egg	2009/83B	65	TGA
			09/146	50	NIBSC
			69	63*	CBER/FDA
			2009AH1VA	57	NIID
			2009AH1VB	75	
			2009/84B	68	TGA
			09/294	34	NIBSC
			H1-Ag-1002	79	CBER/FDA
	NIBRG-121xp	09/196	37	NIBSC	
	NYMC X-179A	Cell	09/174	45-55**	NIBSC

* Applications with vaccines made from heterologous candidate vaccine virus require verification and potential re-calibration

** Estimated potency range

Sheep antisera

Purified HA from		Order / Lot #	Available from
Parent virus	Egg or Cell		
A/California/7/2009 (H1N1)	Egg	09/152	NIBSC

The above-listed potency testing reagents for A/California/7/2009 (H1N1)-like vaccines have been developed with support from manufacturers, and calibrated by the Essential Regulatory Laboratories (ERLs) that provide advice to WHO as part of the influenza vaccine virus selection and development process.

ERLs contact details for reagents orders/information:

CBER/FDA: Rajesh.Gupta@fda.hhs.gov

NIBSC: standards@nibsc.hpa.org.uk

NIID: sitamura@nih.go.jp

TGA: influenza.standards@tga.gov.au

For general enquiries, please contact GISN@who.int.

For other candidate vaccine viruses and potency testing reagents, please go to <http://www.who.int/csr/disease/influenza/vaccinerecommendations2/en/index.html>