

Status of development and availability of A(H5N1) candidate vaccine viruses^{*#}

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Available candidate reassortant vaccine viruses

Parent virus	Clade	Candidate vaccine virus	Developing institute	Available from
A/duck/Singapore/97	0	NIB-40	NIBSC, UK	NIBSC, UK
A/Hong Kong/213/2003	1	NIBRG-12	NIBSC, UK	NIBSC, UK
A/Vietnam/1194/2004	1	NIBRG-14	NIBSC, UK	NIBSC, UK
A/Cambodia/R0405050/2007	1	NIBRG-88	NIBSC, UK	NIBSC, UK
A/Indonesia/5/2005	2.1	CDC-RG2	CDC, USA	Requires Indonesian govt. permission
A/turkey/Turkey/1/2005	2.2	NIBRG-23	NIBSC, UK	NIBSC, UK
A/chicken/India/NIV33487/2006	2.2	IBCDC-RG7	NIV, India CDC, USA	NIV, India CDC, USA
A/bar headed goose/Qinghai/1A/2005	2.2	SJRG-1632222	ST. JUDE, USA HKU, China NIAID, USA	ST. JUDE, USA
A/duck/Laos/3295/2006	2.3.4	CBER-RG1	CBER/FDA, USA	CBER/FDA, USA
A/Anhui/1/2005	2.3.4	IBCDC-RG5	CDC, USA	CDC, USA
A/chicken/Vietnam/NCVD-016/2008	7	IDCDC-RG12	CDC, USA	CDC, USA

*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%20/offices/en/

Candidate reassortant vaccine viruses developed and awaiting regulatory approval

Parent virus	Clade	Developing Institute	Available from
A/Egypt/3300-NAMRU3/2008	2.2	CDC, USA	Pending
A/common magpie/Hong Kong/5052/2007	2.3.2	ST. JUDE, USA HKU, China NIAID, USA	Pending
A/chicken/Hong Kong/AP156/2008-like	2.3.4	ST. JUDE, USA HKU, China NIAID, USA	pending

Candidate reassortant vaccine viruses under development

Parent virus	Clade	Developing Institute	Available from
A/Vietnam/1203/2004	1	CDC, USA ST. JUDE, USA HKU, China NIAID, USA	pending
A/duck/Hunan/795/2002	2.1	ST. JUDE, USA HKU, China NIAID, USA	pending
A/wooper swan /Mongolia/244/2005	2.2	ST. JUDE, USA NIAID, USA	pending
A/Egypt/2321-NAMRU3/2007	2.2.1	CDC, USA	pending
A/Japanese white-eye/HK/1038/2006	2.3.4	ST. JUDE, USA HKU, China NIAID, USA	pending
A/goose/Guiyang/337/2006	4	ST. JUDE, USA HKU, China NIAID, USA	pending

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>

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

CBER/FDA: Centre for Biologics Evaluation and Research/ Food and Drug Administration, USA:

Zhiping.ye@fda.hhs.gov

NIBSC: National Institute for Biological Standards and Control ,UK : standards@nibsc.hpa.org.uk

ST. JUDE: St. Jude Children's Research Hospital, USA: richard.webby@stjude.org

NIV: National Institute of Virology, India: acm1750@rediffmail.com

NIAID: National Institute of Allergy and Infectious Diseases , NIH, USA: ksubbarao@niaid.nih.gov

HKU: University of Hong Kong , China Hong Kong, SAR: malik@hkucc.hku.hk

CDC: Centers for Disease Control and Prevention , Atlanta USA: rdonis@cdc.gov

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

For information of other type and subtype candidate vaccine viruses and potency testing reagents, please go to:

<http://www.who.int/csr/disease/influenza/vaccinerecommendations2/en/index.html>.