

Summary of status of development and availability of A/Perth/16/2009 (H3N2)-like candidate vaccine viruses* and potency testing reagents

* Antigenic and genetic analyses are performed by the WHO Collaborating Centres of the Global Influenza Surveillance and Response System. [National or Regional control authorities approve the composition and formulation of vaccines used in each country](#)

11 August 2011

Candidate vaccine viruses

| Parent virus | Candidate vaccine virus | Type of virus or reassortant | Developing institute | Available from |
|---|-------------------------|------------------------------|-------------------------------|---------------------------------------|
| *A/Perth/10/2010 (H3N2) | Wild type virus | | | CDC, USA |
| | NYMC X-207 | Classical | New York Medical College, USA | NYMC, USA |
| A/Perth/16/2009 (H3N2) | Wild type virus | | | WHO CCs NIBSC, UK |
| | NIB-64 | Classical | NIBSC, UK | NIBSC, UK NIID, Japan |
| A/Brisbane/11/ 2010 (H3N2) | Wild type virus | | | WHO CCs |
| | NYMC X-197 | classical | New York Medical College, USA | New York Medical College, USA |
| A/Hawai/07/2009 (H3N2) | Wild type virus | | | WHO CCs |
| | CDCID-RG23 | Reverse Genetics | CDC, USA | CDC, USA |
| A/Wisconsin/15/2009 (H3N2) | Wild type virus | | | WHO CCs NIBSC, UK |
| | NYMC X-183 | Classical | New York Medical College, USA | NYMC, USA NIBSC, UK NIID, Japan |
| | CDCID-RG24 | Reverse Genetics | CDC, USA | CDC, USA |
| A/Guangdong-Luohu/1256/2009 (H3N2) | Wild type virus | | | WHO CCs |
| | NYMC X-185 | Classical | New York Medical College, USA | NYMC, USA NIBSC, UK NIID, Japan |
| | NYMC X-185xp | | | NYMC, USA NIID, Japan |
| A/Hong Kong/26560/2009 (H3N2) | Wild type virus | | | WHO CCs |
| | NYMC X-189 | Classical | New York Medical College, USA | NYMC, USA |

***new candidate vaccine virus**

| Parent virus | Candidate vaccine virus | Type of virus or reassortant | Developing institute | Available from |
|--------------------------------|-------------------------|------------------------------|-------------------------------|---------------------------------------|
| A/Victoria/210/2009 (H3N2) | Wild type virus | | | WHO CCs NIBSC, UK |
| | IVR-155 | Classical | CSL, Australia | NIBSC, UK NIID, Japan |
| | NYMC X-187 | | New York Medical College, USA | NYMC, USA NIBSC, UK NIID, Japan |
| | NIB-65 | | NIBSC, UK | NIBSC, UK |
| A/Philippines/2191/2009 (H3N2) | Wild type virus | | | WHO CCs |
| | NYMC X-191 | Classical | New York Medical College, USA | NYMC, USA |

Institutes contact details for candidate vaccine viruses orders/information:

CDC: rdonis@cdc.gov

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

NIID: sitamura@nih.go.jp

NYMC: doris_bucher@nymc.edu

Reference antigens (freeze-dried)

| Parent virus | Starting materials | | Ref Ag Lot # | Unitage (µgHA/mL) | Available from |
|---------------------|--------------------|---------------------------|---------------------|--------------------------|----------------|
| | CVV | Egg or Cell | | | |
| | | | | | |
| A/Wisconsin/15/2009 | NYMC X-183 | Egg | 2009/86B | 75 | TGA |
| | | | 2010/87B | 71 | |
| | | | 09/310 | 48 | NIBSC |
| A/Victoria/210/2009 | NYMC X-187 | | 10/102 | 26 | NIBSC |
| | | | 70 | 71 | CBER/FDA |
| | | | H3-Ag-1003 | 72 | CBER/FDA |
| | | | 2010AH3B | 71 | NIID |

Sheep antisera

| Purified HA from | | Order / Lot # | Available from |
|---------------------|-------------------|---------------------|----------------|
| Parent virus | Egg or Cell | | |
| A/Perth/16/2009 | Egg | 10/182 | NIBSC |
| A/Singapore/37/2009 | | AS400 | TGA |
| A/Wisconsin/15/2009 | | H3-Ab-1005 | CBER/FDA |

The above-listed potency testing reagents 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:

NIBSC: standards@nibsc.hpa.org.uk
TGA: influenza.standards@tga.gov.au
NIID: sitamura@nih.go.jp
CBER/FDA: Rajesh.Gupta@fda.hhs.gov

For general enquiries, please contact GISN@who.int

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