

Influenza A(H3N2) egg-derived candidate vaccine viruses for development and production of vaccines for use in the 2018-2019 northern hemisphere influenza season

Antigenic and genetic analyses are performed by the WHO Collaborating Centres of the Global Influenza Surveillance and Response System (GISRS). Unless otherwise indicated all candidate vaccine viruses posted on this table have passed two-way haemagglutination inhibition (HI) test. National or regional control authorities¹ approve the composition and formulation of vaccines used in each country.

22 February 2018*

Candidate vaccine viruses (antigenically like A/Singapore/INFIMH-16-0019/2016)

| Parent virus | Candidate vaccine virus | Type of virus or reassortant | Developing institute | Available from |
|--|-------------------------|------------------------------|----------------------|---|
| A/SINGAPORE/INFIMH-16-0019/2016 | Wild type virus | | | VIDRL, Australia NIBSC, UK |
| | IVR-186 | Classical | Seqirus | CBER, USA CCDC, China CDC, USA FCI, UK NIBSC, UK NIID, Japan VIDRL, Australia |
| | NYMC X-307* | Classical | NYMC | CDC, USA NYMC, USA |
| | NYMC X-307A* | Classical | NYMC | CDC, USA NYMC, USA |
| | NIB-104 | Classical | NIBSC | VIDRL, Australia NIBSC, UK |

***New candidate vaccine virus shown in blue**

Institutes contact details for candidate vaccine virus orders/information:

CBER: fda.gov/cber
CDC: xxu@cdc.gov
CCDC: whocc-china@cnic.org.cn
FCI: whocc@crick.ac.uk
NIBSC: standards@nibsc.org or enquiries@nibsc.org
NIID: flu-vaccine@nih.go.jp
VIDRL: whoflu@influenzacentre.org

¹ http://www.who.int/immunization_standards/national_regulatory_authorities%20offices/en/

Reference antigens (freeze-dried)

| Parent virus | Starting materials | | Ref Ag Lot number | Unitage (µgHA/ml) | Available from |
|---------------------------------|----------------------------|----------------|----------------------|----------------------|----------------|
| | Candidate vaccine virus | Egg or cell | | | |
| A/Singapore/INFIMH-16-0019/2016 | IVR-186 | Egg | 2017/120B | 83 | TGA, Australia |
| | NIB-104 | Egg | 17/218 | 55 | NIBSC, UK |

Sheep Antisera – To be updated

| Purified HA from | | Order Lot number | Available from |
|---------------------------------|-------------|---------------------|----------------|
| Parent virus | Egg or cell | | |
| A/Singapore/INFIMH-16-0019/2016 | Egg | AS 420 | TGA, Australia |
| | | 17/220 | NIBSC, UK |

The above-listed potency testing reagents are developed with support from manufacturers, and calibrated by the WHO Essential Regulatory Laboratories (ERLs) of the Global Influenza Surveillance and Response System (GISRS).

ERLs contact details for reagents orders/information:

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

NIID: flu-vaccine@nih.go.jp

TGA: influenza.reagents@health.gov.au

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

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