Availability of a candidate reassortant vaccine virus for the novel influenza A (H1N1) vaccine development

27 May 2009

IDCDC-RG15

A candidate reassortant vaccine virus (IDCDC-RG15) has been developed, using reverse genetics technology, from an A/Texas/5/2009 (H1N1)v virus, by the WHO Collaborating Centre for Surveillance, Epidemiology and Control of Influenza in the Centers for Disease Control and Prevention (CDC), Atlanta, GA, USA.

The full characterization of this reassortant virus, including safety testing in ferrets, is currently being conducted by the WHO Collaborating Centre. . . Antigenic and genetic analyses completed so far indicate that the IDCDC-RG15 reassortant virus meets the specifications in the recent WHO recommendation on viruses to be used in vaccine development.1

The haemagglutinin (HA) and neuraminidase (NA) sequences of the A/Texas/5/2009 (H1N1)v virus can be found on the public web site of GenBank via the following links:

HA sequence

NA sequence

The IDCDC-RG15 reassortant virus is available for distribution to manufacturers under certain biocontainment conditions.2 Institutions, companies and other parties interested in developing vaccines to the novel variant influenza A (H1N1) virus, who wish to receive this candidate reassortant vaccine virus, should contact either the WHO Global Influenza Programme at GISN@who.int or the WHO Collaborating Centre at the address below:

WHO Collaborating Centre for Surveillance, Epidemiology and Control of Influenza Centers for Disease Control and Prevention, Influenza Branch
1600 Clifton Road, G16, Atlanta, Georgia 30333, United States of America
Fax:+1 404 639 0080
E-mail: rdonis@cdc.gov
http://www.cdc.gov/flu/

The WHO Global Influenza Surveillance Network closely monitors the antigenic and genetic evolution of emerging and circulating human influenza viruses. Countries are encouraged to share with WHO both their specimens/isolates for inclusion in the WHO influenza vaccine virus selection and development process, and other activities of public health importance.

Biocontainment requirements for handling the candidate reassortant vaccine virus

The candidate reassortant vaccine virus contains infectious materials and should be handled only in appropriate containment facilities (until completion of the above-mentioned safety tests, it is recommended to use biosafety level 2 plus [BSL-2 plus] facilities with biosafety level 3 [BSL-3] practices)3 using fully trained and competent staff in accordance with national safety guidelines. Further guidance will be provided to recipient laboratories when the safety tests have been completed. If, as expected, attenuation is demonstrated, vaccine production may proceed at BSL-2 enhanced level, as described in WHO Technical Report Series No. 941.4 Recipient laboratories must accept full responsibility for the use and disposal of all materials.

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4 http://whqlibdoc.who.int/trs/WHO_TRS_941.pdf