

Influenza A Virus, A/California/04/2009 (H1N1)pdm09, BPL-Inactivated

Catalog No. NR-49450

For research use only. Not for human use.

Contributor and Manufacturer:

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Product Description:

NR-49450 is a preparation of influenza A virus, A/California/04/2009 (H1N1)pdm09 that has been inactivated with beta-propiolactone (BPL). Cell lysate and supernatant from infected Madin-Darby canine kidney (MDCK) cells was treated with 0.3% BPL with the addition of Tris (pH 8.5) to 0.1M. Complete inactivation of the virus was confirmed by culture on MDCK cells, monitoring daily for the presence of cytopathic effect and terminally for the presence of viral antigen by immunofluorescence. The inactivated virus preparation was aliquoted and lyophilized. Representative vials were reconstituted and tested with rapid lateral flow influenza tests to confirm the antigenicity of the final preparation.

Material Provided:

NR-49450 contains approximately 0.5 mL (lyophilized) of BPL-inactivated influenza A virus, A/California/04/2009 (H1N1)pdm09. When reconstituted with 0.5 mL of sterile distilled water, the inactivated virus will be in virus growth medium containing 2% fetal bovine serum and 0.1M Tris (pH 8.5).

Packaging/Storage:

NR-49450 was packaged aseptically in glass serum vials. The product is provided at ambient temperature but should be stored at -20°C to -40°C immediately upon arrival. At colder temperatures, the rubber stopper may become brittle and compromise the seal. Reconstituted material should be stored at -20°C or colder, preferably in aliquots in order to avoid repeated freezing and thawing. Long-term storage at warmer temperatures is not recommended because the sterility of the final product was not confirmed and is not guaranteed.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Influenza A Virus, A/California/04/2009 (H1N1)pdm09, BPL-Inactivated, NR-49450."

Biosafety Level: 1

Appropriate safety procedures should always be used with

this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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