

Product Information Sheet for NR-137

Hepatitis A Virus, HM175/18f

Catalog No. NR-137

Derived from ATCC® VR-1402™

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: Picornaviridae, Hepatovirus

Species: Hepatitis A virus

Strain/Isolate: HM175/18f (HM175 cytopathic clone B)

Original Source: Hepatitis A virus, HM175/18f was isolated from the feces of a patient with acute viral hepatitis during an outbreak of hepatitis A in a semirural area on the outskirts of Melbourne, Australia during October/November of 1976. The sample was collected one week after the onset of symptoms and the virus was initially passaged through marmosets, isolated from marmoset liver on primary African green monkey kidney (BS-C-1) cells and subsequently passaged and plaque-purified in BS-C-1 cells. Strain HM175/18f demonstrates a rapid replication/cytopathic effect (RR/CPE+) phenotype in BS-C-1 cells but retains the antigenic characteristics of low culture passage hepatitis A virus.

<u>Comments</u>: The complete genome of hepatitis A virus, HM175/18f has been sequenced (GenBank: KP879216).

Material Provided:

Each vial contains approximately 1.0 mL of cell lysate and supernatant from *Macaca mulatta* fetal kidney cells (FRhK-4) infected with hepatitis A virus, HM175/18f.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-137 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

<u>Host</u>: *Macaca mulatta* fetal kidney cells (FRhK-4; ATCC[®] CRL- 1688™)

Growth Medium: Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 70% to 90% confluent Incubation: 6 to 7 days at 35°C and 5% CO₂
Cytopathic Effect: Refractile rounding and sloughing

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Hepatitis A Virus, HM175/18f, NR-137."

Biosafety Level: 2

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

 Gust, I. D., et al. "The Origin of the HM175 Strain of Hepatitis A Virus." <u>J. Infect. Dis.</u> 151 (1985): 365-367. PubMed: 2981939.

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- Binn, L. N., et al. "Primary Isolation and Serial Passage of Hepatitis A Virus Strains in Primate Cell Cultures." <u>J. Clin.</u> Microbiol. 20 (1984): 28-33. PubMed: 6086708.
- Lemon, S. M., et al. "Antigenic and Genetic Variation in Cytopathic Hepatitis A Virus Variants Arising During Persistent Infection: Evidence for Genetic Recombination." <u>J. Virol.</u> 65 (1991): 2056-2065. PubMed: 1705995.

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