Product Information Sheet for NR-52726

Human Coronavirus, 229E

Catalog No. NR-52726

For research use only. Not for use in humans.

Contributor:
ATCC®

Manufacturer:
BEI Resources

Product Description:

Virus Classification: Coronaviridae, Alphacoronavirus
Species: Human coronavirus
Strain/Isolate: 229E

Original Source: Human coronavirus (HCoV), 229E was isolated in 1962 from a human adult with minor upper respiratory illness. HCoV, 229E was deposited with ATCC® as VR-740, which was used to produce NR-5276.

Comments: The complete genome of HCoV, 229E has been sequenced (GenBank: AF304460). CoVs are enveloped, positive-stranded RNA viruses with approximately 30 kilobase genomes. CoVs are classified into three groups based on serological and genetic similarities: group 1 includes HCoV, 229E; group 2 includes HCoV, OC43 and group 3 contains avian infectious bronchitis virus and turkey CoV. SARS-CoV is not assigned to any group, but is most closely associated with group 2. HCoV are enveloped vertebrate viruses associated with respiratory and enteric diseases and are responsible for 10 to 20% of all common colds. HCoV infect all age groups and reinfection is common.

Material Provided:
Each vial contains approximately 1.0 mL of cell lysate and supernatant from human lung fibroblast cells infected with HCoV, 229E.

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

Packaging/Storage:
NR-52726 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:

Human lung fibroblast cells (MRC-5; ATCC® CCL-171™)
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 grams per liter of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 1 to 2 days old and 90% confluent

Incubation: 1 to 4 days at 35°C and 5% CO₂

Cytopathic Effect: Cell rounding

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Human Coronavirus, 229E, NR-52726.”

Biosafety Level: 2


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References:


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