Common colds. HCoV infect all age groups and reinfection is not uncommon. Enteric diseases and are responsible for 10 to 20% of all respiratory infections. Coronaviruses (CoV) are enveloped, positive-stranded RNA viruses with approximately 30 kb genomes. 1,2 CoV 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. 1,3 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.1

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Material Provided:
Each vial contains approximately 1.0 mL of cell lysate and supernatant from human ileocecal colorectal adenocarcinoma cells (HRT-18G; ATCC CRL-11663™) infected with HCoV, OC43.

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

Packaging/Storage:
NR-56241 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:
Host: Human ileocecal colorectal adenocarcinoma cells (HRT-18G; ATCC CRL-11663™)
Growth Medium: Dulbecco’s Modified Eagle’s medium modified to contain 4 mM L-glutamine, 4500 milligrams per liter glucose, 1 mM sodium pyruvate, and 1500 milligrams per liter sodium bicarbonate supplemented with 2% irradiated fetal bovine serum, or equivalent
Infection: Cells should be 70% to 80% confluent
Incubation: 4 to 8 days at 33°C and 5% CO2
Cytopathic Effect: Cell vacuolization and sloughing

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Human Coronavirus, OC43 in HRT-18G Cells, NR-56241.”

Biosafety Level: 2

Disclaimers:
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References:

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