Strain: AR310
Classification: Coronaviridae, Alphacoronavirus, Alphacoronavirus 1
Original Source: Culture of a novel TGEV-related Porcine respiratory coronavirus
Depositor: Iowa State University Research Foundation

Refer to the Certificate of Analysis for batch-specific test results.

Propagation Host:
ST cells (ATCC® CRL-1746™)
Effect on Host:
CPE, fused and rounded cells with sloughing

Medium:
EMEM (ATCC® 30-2003™) + 2% FBS (ATCC® 30-2020™)

Growth Conditions
Temperature: 37°C
Recommendations for Infection: For best results, infection should be performed on a 80-90% confluent, 18-48 hour old cellular monolayer. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 cm²). Wash monolayer with PBS or serum free medium prior to inoculation. Adsorb virus dilution for 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.
Incubation: 2-3 days at 37°C in a humidified 5% CO₂ atmosphere, until CPE is progressed through 80% of the monolayer.

This strain provides a biological pure culture of a novel pathogenic porcine respiratory coronavirus (PRCV) and a vaccine derived therefrom effective against PRCV infection and Transmissible gastroenteritis virus (TGEV) infection. The virus produces a moderate pneumonia in pigs. There is no indication of human health hazard.

This material is cited in U.S. and/or other patent # 5,419,907 May 30, 1995.

References and other information relating to this product are available online at www.atcc.org.

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

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