



# Enterovirus A71

VR-1775™

## Description

Enterovirus A71 strain BrCr is propagated in Vero cells (ATCC CCL-81). This strain was originally isolated from the stool specimen of a 2-month-old male with aseptic meningitis and was derived by passage in Vero cells. It has applications in enteric disease research.

**Strain designation:** BrCr

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## Intended Use

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

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## BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Host:** Vero (ATCC CCL-81)

**Effects:** CPE; cell degeneration; cell rounding; cell sloughing

**Complete medium:**

EMEM (ATCC 20-2003) + 2% FBS (ATCC 30-2020)

**Temperature:** 37°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

**Recommendations for infection:** Plant cells 24-48 hours in advance and infect when cultures are 70-80% confluent. Remove medium, wash cell monolayer once with PBS, and inoculate with a small volume (eg. 1 mL per cm<sup>2</sup>) of virus diluted to provide a MOI of about 0.1. Adsorb 1-2 hours at 37°C in a humidified 5% CO<sub>2</sub> atmosphere. End adsorption by adding virus growth medium.

**Incubation:** Incubate infected culture for 5-9 days at 37°C in a humidified 5% CO<sub>2</sub> atmosphere, until CPE are well advanced through 90% of the culture.

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

Derived by passage of ATCC VR-784 in Vero cells (ATCC CCL-81). This product will replace ATCC VR-784. (Note: The sequences of ATCC VR-784 and ATCC VR-1775 have not been compared).

**Key Abbreviations:** °C, Degrees Celsius; CO<sub>2</sub>, Carbon dioxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; CPE, Cytopathic effect; MOI, Multiplicity of infection

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Enterovirus A71 (ATCC VR-1775)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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