



Cowpox virus

VR-302™

Description

Cowpox virus strain Brighton is an animal virus that was isolated in 1937 from lesions on the hands of a milker in England.

This product requires a VS 16-6A permit, which can be downloaded at the [USDA website here](#). Please submit the completed permit form to SalesPermits@atcc.org with your ATCC sales order number and/or your purchase number noted in the subject line and body of the email.

Strain designation: Brighton

Deposited As: Cowpox virus, Orthopoxvirus

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

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.

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

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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 submerged 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 submerged in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: BS-C-1 (ATCC CCL-26)

Effects: localized hemorrhagic lesion at inoculation site

Complete medium:

Leibovitz's L-15 (ATCC 30-2008) + 2% FBS (ATCC 30-2020).

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Plant cells 24-48 hours in advance and infect when cultures are 80-90% confluent. Remove medium and inoculate with a small volume (e.g. 1 mL per 25 cm²) of virus diluted with VGM to provide a MOI of about 0.1-1.0. Adsorb 1 hour at 37°C in a humidified 5% CO₂ atmosphere. End adsorption by adding virus growth medium.

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Incubation: 2-3 days

Handling Procedures

Mycoplasma contamination: Not detected

Notes

This strain is recognized as prototype strain by Virus Subcommittee of the International Nomenclature Committee (Fenner A, Burnet, FM, 1957).

Key Abbreviations: BS-C-1, African green monkey kidney cells; °C, Degrees Celsius; CO₂, Carbon dioxide; CPE, Cytopathic effect; FBS, Fetal bovine serum; MOI, Multiplicity of infection

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Cowpox virus (ATCC VR-302)

References

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

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