VR-805

VR-805™

Description

Deposited As: RD-114 Feline

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 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.

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: RD (ATCC CCL-136)
Virus replicates in human; primate cells; dog cells; cat cells are resistant to virus replication
Effects: No CPE. PCR will be needed for confirmation.
Complete medium: EMEM (ATCC 30-2003) + 10% FBS (ATCC 30-2020)
Temperature: 37°C
Recommendations for infection:

Agent Growth Media: EMEM + 10% FBS
Agent Diluent (for Passage 1 only): Neat EMEM
Virus Growth Condition: 37°C + 5% CO_2, Humid

For the first passage

1. Seed T-75 flask with RD cells (ATCC CCL-136).
2. Pretreat the negative control flask and virus flask with 4µg/mL Polybrene in EMEM for 1 hour at 37°C, 5% CO_2, humidity.
3. Inoculation can begin once the cells reach 80-90% confluency. Inoculate the cells using a 1:3 dilution (i.e., 1mL of virus + 2mL of Neat EMEM). Adsorption is 2

– 2.5 hours.
4. After adsorption, add 9 mL of AGM.

For the second passage

1. Once the flask reaches 100% confluent, collect the supernatant from flask.
2. Wash the monolayer with 1X DPBS (ATCC 30-2200).
3. Aspirate the 1X DPBS from the flask and add 0.25% Trypsin-EDTA (ATCC 30-2101).
4. Once the cells have disassociated, neutralize the trypsin by adding the supernatant back to the flask.
5. Calculate the total volume of material per flask and perform a 1:5 SPLIT ratio (i.e. based on surface area of flasks).
6. Add the collected cells into a new flask (i.e., T225) and bring the total volume of the flask up to 40mL.
7. Let the cells grow until 100% confluent. These are now “persistently infected”.

For the third passage:

1. Repeat steps 1-7 until necessary.

Incubation: 8 days at 37°C

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Endogenous xenotropic retrovirus. Virion: Budding particles with ultrastructural characteristics of Type-C virus. Similar to baboon virus envelope. Forms molecular hybrids with cat but not human DNA. Capacity to induce syncytia: Present for KB, EH MG-118 (KC), human lymphoblastoid cells, and for D-17 line of dog cells.

No CPE, PCR will be needed for confirmation. For TCID50, CCL-64.1 with a dextran-treatment will be needed.

Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; EMEM, Eagle's Minimum

Essential Medium; 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: VR-805 (ATCC VR-805)

References

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

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Revision

This information on this document was last updated on 2026-04-25

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