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: CPE; syncytia
Complete medium: DMEM (ATCC 30-2002) + 10% FBS (ATCC 30-2020) supplemented with polybrene at a final concentration of 4 µg/mL.
Temperature: 37°C
Recommendations for infection:

1. Seed RD (ATCC CCL-136) cell cultures in T25 flasks at densities of 2 x 10^5 cells per flask. The growth media used (ATCC-formulated Dulbecco's Modified Eagle's Medium, Catalog No. 30-2002 with the addition of 10% fetal bovine serum) should contain polybrene to a final concentration of 4 µg/mL.
2. The following day, growth medium should be removed and each flask inoculated with either DMEM (Negative Control) or RD-114 virus (1:10 diluted) - 0.5 mL into each flask.
3. Allow the virus to adsorb for 90 minutes at 37°C; at the end of adsorption, add 5 mL of growth media to each flask.

4. By 3 days post infection, when the cells became confluent, passage cells and split each T25 flask into a T75 flask.
5. Approximately 3-4 days later, when the cultures were confluent again, change the media. Collect the supernatant daily and clarify by low-speed centrifugation and replace the cell media with fresh growth media.
6. Freeze the collected virus-containing supernatant at -80°C.
7. After all harvests have been completed, thaw, pool, then filter the frozen samples through 0.45 um Millipore filter. Carry out all steps on wet ice.
8. Aliquot filtrate into vials for storage.

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.

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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