Chlamydophila pecorum (Fukushi and Hirai) Everett et al.

VR-628™

Description

Strain designation: Sporadic Bovine Encephalomyelitis [strain E58 (McNutt)]
Deposited As: *Chlamydia psittaci* (Lillie) Page
Type strain: Yes

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: McCoy [McCoy B] (ATCC CRL-1696)
Effects: CPE; cytoplasmic inclusions; death of host animal; hemorrhage; hyperemia of yolk sac
Complete medium:
DMEM (ATCC® 30-2002™) + 10% prescreened FBS + 10 mM HEPES + 2 µg/mL Cycloheximide (Sigma C-4859 Ready-Made)
Temperature: 37°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: For best results cells should be 24 to 48 hours old and 90-100% confluent as the cylcoheximide will prevent further growth.
Incubation: 48-72 hours

Handling Procedures

Mycoplasma contamination: Not detected

Notes

FBS used to culture *Chlamydia* must be prescreened to verify that the serum does not contain antibodies to *Chlamydia* or other factors that would interfere with growth.

Highly lethal and infectious for guinea pigs as well as chicken embryos. Non-infectious for mice, pigeons, sparrows, parakeets, turkeys and lambs. Growth rate markedly increases with temperature, optimal temperature for growth in chicken embryos is 39°C. Suggested protocol for propagation in TC: Add glass beads and vortex preparation to disrupt cells. Infect monolayer with disrupted material. Centrifuge at 3000 x rpm (750 x *g*) for 1 hour. Feed with fresh growth medium containing FBS prescreened for Chlamydia antibodies and 1-5mg/mL cycloheximide. Incubate at 37°C for 48 to 72 hours, a 5% CO_2 in air atmosphere is recommended. Biosafety level 3 facilities and practices are indicated for activities with high potential for droplet or aerosol production.

Next-generation sequencing (NGS) at ATCC on the McCoy cell line (ATCC® CRL-1696™) used as the host has shown the presence of Mus Musculus mobilized endogenous polytropic provirus and Murine leukemia virus.
Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; DMEM, Dulbecco's Modified Eagle's Medium; FA, Fluorescent antibody assay; FBS, Fetal bovine serum; g, Acceleration of gravity; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chlamydophila pecorum* (Fukushi and Hirai) Everett et al. (ATCC VR-628)

References

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

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Revision

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Contact Information

ATCC
10801 University Boulevard

Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor