



Chlamydia pecorum Fukushi and Hirai

VR-1575™

Description

Strain designation: Ovine Polyarthrititis strain IPA (Iowa polyarthrititis)

Type strain: No

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

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% CO₂

Recommendations for infection: For best results cells should be 24 to 48 hours old and 90-100% confluent.

Incubation: 48 to 72 hours, a 5% CO₂ in air atmosphere is recommended.

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.

Suggested protocol for propagation: Add 10 to 15 glass beads and vortex preparation to disrupt cells. Infect monolayer with disrupted material. Centrifuge at 3000 rpm (750 x g) for 1 hour. Feed with fresh growth medium containing FBS prescreened for *Chlamydia* antibodies and 1-2 mg/mL cycloheximide. Incubate at 37°C for 48 to 72 hours, a 5%CO₂ in air atmosphere is recommended. ATCC® VR-1575™ was created by TC-adapting a yolk sac preparation, ATCC® VR-629™ to TC.

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; CPE, Cytopathic effect; CO₂, 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: *Chlamydia pecorum* Fukushi and Hirai (ATCC VR-1575)

References

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

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