ATCC

Product Sheet

Chlamydophila pecorum (Fukushi and Hirai) Everett et al. (ATCC® VR-1575™)

Please read this FIRST

Storage Temp.
-70°C or colder

Biosafety Level
2

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Chlamydophila pecorum* (Fukushi and Hirai) Everett et al. (ATCC® VR-1575™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
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Description

Strain: Ovine Polyarthritis strain IPA (Iowa polyarthritis)
Classification: Chlamydiaceae
Original Source:
derived from existing strain (This is a tissue culture adapted version of ATCC VR-629. ATCC VR-629 was isolated from sheep's joint fluid in Iowa.)
Depositor: LA Page, ATCC

Propagation

Propagation Host:
McCoy ATCC CRL-1696
alternate: chicken embryo
alternate: guinea pig
alternate: turkey
Recommended Host: McCoy (ATCC® CRL-1696 ™)

Effect on Host:
in vitro effects: CPE, subtle - monolayer dirty looking with cell degeneration
Subtle CPE; monolayer dirty looking with cell degeneration.

Medium:
Virus growth medium: DMEM [(ATCC 30-2002) 4.5 mg/mL glucose] + 10% FBS (Biowhittaker 14-902E) + 2 mg/mL Ready Made Cycloheximide (Sigma C-4859, 100 mg/mL) + 1.0 mL of 1M HEPES (Invitrogen/Gibco 15630-106)

Growth Conditions
Temperature: 37.0°C
Duration: 48 to 72 hours. For best results cells should be 24 to 48 hours old and 90-100% confluent.
Atmosphere: 5% CO2 in air recommended.

Comments

Suggested protocol for propagation: Add 10 to15 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%CO_2 in air atmosphere is recommended. ATCC® VR-1575 ™ was created by TC-adapting a yolk sac preparation, ATCC® VR-629 ™ to TC.

References

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

Key Abbreviations

CE, chicken embryo
CPE, cytopathic effect
CO_2 (CO2), carbon dioxide
DMEM, Dulbeccos modified Eagles medium
FA, fluorescent antibody
FBS, fetal bovine serum
g, acceleration of gravity
HEPES, N-(2-Hydroxyethyl)piperazine-N-(2- ethanesulfonic acid)
hr, hour
IPA, Iowa polyarthritis
M, Molar
MAB, monoclonal antibody
McCoy, mouse line susceptible to Chlamydia
mg, milligram
mg (ug), microgram
mL, milliliter

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mM, millimolar
rpm, revolutions per minute
SMM, special maintenance medium
TC, tissue culture
$TCID_{50}$(TCID[50]), The Tissue Culture Infectious Dose 50% endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.
y.s., yolk sac

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Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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