ATCC

Product Sheet

Piscirickettsia salmonis Fryer et al. (ATCC® VR-1361™)

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: *Piscirickettsia salmonis* Fryer et al. (ATCC® VR-1361™)

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

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain: LF-89
Classification: Thiotrichales, Piscirickettsiaceae, Piscirickettsia
Original Source:
clinical specimen - animal
Chile
Isolation date: October, 1989
Depositor: JL Fryer, CN Lannan

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

Propagation

Propagation Host:
Recommended Host: CHSE-214 (ATCC® CRL-1681™)

Effect on Host:
Cytopathic effects in tissue culture
ref
CPE; small refractile rounding and clumping

Medium:
Agent growth medium: EMEM + 10% FBS (ATCC® 30-2020) + 10 mM HEPES

Growth Conditions
Atmosphere: air, 95%; carbon dioxide (CO2), 5%
Temperature: 15°C to 18°C
Duration: 6 to 14 days; For best results host cells should be 24 to 48 hours old and 70% - 80% confluent (not 100% confluent).

Comments

Gram negative, non-motile, pleomorphic 0.5-1.5 mm diameter coccoid. Proposed member of the tribe Ehrlichieae. See Fryer et. al. (International Journal of Systematic Bacteriology, 42:12-126, 1992) for background on nomenclature. NOTE: Titer is decreased by >99% by one cycle of freeze-thaw at -70°C. Addition of 10%DMSO has a cryopreservative effect.

References

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

Key Abbreviations

bp, base pair
C, Celsius
CHH-1, normal chum salmon (*Oncorhynchus keta*) heart cells
CHSE-214, normal chinook salmon (*Oncorhynchus tshawytscha*) embryo cells
CPE, cytopathic effect
DMSO, dimethyl sulfoxide
EMEM, Eagles minimum essential medium
FBS, fetal bovine serum
HEPES,N-2-Hydroxyethylpiperazine-N^1-2-Ethane Sulfonic acid
mm (um), micrometer
mL, milliliter
mM, millimole
NCBI, National Center for Biotechnology Information
PCR, polymerase chain reaction
RTG-2, rainbow trout (*Oncorhynchus mykiss*) gonadal tissue cells
TC, tissue culture
$TCID_{50}$(TCID[50]), The Tissue Culture Infectious Dose

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50% endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ is the dilution of agent 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 preparation.

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.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

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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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