



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
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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-N¹-2-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

TCID₅₀(TCID[50]), The Tissue Culture Infectious Dose

50% endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ 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




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50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ 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.

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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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