



Piscirickettsia salmonis Fryer et al.

VR-1361™

Description

Gram-negative bacterium isolated from an animal source.

Strain designation: LF-89

Deposited As: *Piscirickettsia salmonis* Fryer et al.

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.

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This is an exotic fish pathogen and caution should be exercised when working with this agent to avoid introducing it into environments where it has not been previously reported to exist.

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 submerged 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 submerged 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

Effects: CPE

Complete medium:

EMEM (ATCC[®] 30-2003™) + 10% FBS (ATCC[®] 30-2020™) + 10 mM HEPES

Temperature: 15-18°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results cells should be 24 to 48 hours old and 70% - 80% confluent (not 100% confluent).

Incubation: 6 to 14 days

Handling Procedures

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Mycoplasma contamination: Not detected

Notes

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.

Key Abbreviations: mM, millimolar; NCBI, National Center for Biotechnology Information; PCR, Polymerase chain reaction; RTG-2, Rainbow trout gonadal tissue cells; TC, Tissue culture; TCID₅₀, Median tissue culture infective dose; bp, Base pairs; °C, Degrees Celsius; CHH-1, Normal chum salmon (*Oncorhynchus keta*) heart cells; CHSE, Chinook Salmon embryo cells; CPE, Cytopathic effect; DMSO, Dimethyl sulfoxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid); μm, Micrometer; mL, Milliliter

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Piscirickettsia salmonis* Fryer et al. (ATCC VR-1361)

References

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

Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30

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