



***Flavobacterium columnare* (Bernardet and Grimont 1989) Bernardet et al. 1996**

23463™

Description

Flavobacterium columnare strain NCIMB 2248 is a bacterial type strain that was isolated from diseased chinook salmon from the Snake River in Washington.

Strain designation: NCIMB 2248 [I-S-2c], NCMB 1038, CIP 103531, JCM 21141, LMG 13035, LMG 10406, NBRC 100251]

Deposited As: *Cytophaga columnaris* (Davis) Garnjobst

Type strain: Yes

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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 1

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

***Flavobacterium columnare* (Bernardet and Grimont 1989)**

Bernardet et al. 1996

23463

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

Medium:

ATCC Medium 1750: Anacker and Ordal medium

Temperature: 20-24°C

Atmosphere: Aerobic

Handling Procedures

1. Open vial.

***Flavobacterium columnare* (Bernardet and Grimont 1989)**

Bernardet et al. 1996

23463

2. Rehydrate the entire pellet with approximately 0.5 mL of #1750 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #1750 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.
 3. Use several drops of the primary broth tube to inoculate a #1750 plate and/or #1750 agar slant.
 4. Incubate in a shaking incubator at 20-24° C for 3-6 days.
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Notes

Establish growth in broth for 72 to 96 hours before transferring to agar.

The addition of 5% (v/v) heat inactivated fetal bovine serum to the broth media may aid in the recovery and growth of the organism following preservation. Two colony types may be observed on #1750 agar plates.

Growth is best achieved on a biphasic slant. Broth cultures do best if gently shaken. Culture exhibits light turbidity only. Maximum growth occurs at 5 to 6 days for RT cultures.

Culture grows best at 20°C. Room temperature is sufficient, providing it does not exceed 24°C to 26°C.

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Flavobacterium columnare* (Bernardet and Grimont 1989) Bernardet et al. 1996 (ATCC 23463)

References

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

Flavobacterium columnare* (Bernardet and Grimont 1989)*Bernardet et al. 1996**

23463

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Flavobacterium columnare* (Bernardet and Grimont 1989)*Bernardet et al. 1996**

23463

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