



Product Sheet

# *Flavobacterium columnare* (ATCC® 23463™)

Please read this **FIRST**



## 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: *Flavobacterium columnare* (ATCC® 23463™)

American Type Culture Collection  
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Manassas, VA 20108 USA  
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## Description

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

**Deposited Name:** *Cytophaga columnaris* (Davis) Garnjobst

## Propagation

### Medium

ATCC® Medium 1750: Anacker and Ordal medium

### Growth Conditions

**Temperature:** 20°C to 24°C

**Atmosphere:** Aerobic

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Using a single tube of #1750 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet. Note: The addition of 5% (v/v) heat inactivated fetal bovine serum to the broth media will aid in the recovery and growth of the organism following preservation.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a #1750 agar slant and/or plate.
5. Incubate the tubes and plate at 20°C for 72 to 96 hours with shaking condition.

## 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 will aid in the recovery and growth of the organism following preservation.

Colonies on #1750 agar plates are yellow, translucent, flat, spreading, rhizoid, filamentous, and adhere to agar surface.

Growth is best achieved on a biphasic slant. Broth cultures (in flasks) do best if gently shaken. Culture exhibits light turbidity only, and maximum growth is at 5 to 6 days for RT flasks.

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](http://www.atcc.org).

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Biosafety Level: 1

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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**(ATCC® 23463™)**

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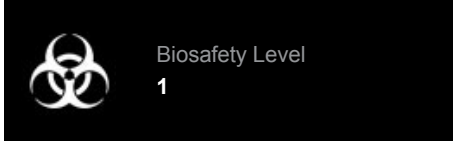
Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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