



# *Flexibacter polymorphus* Lewin

27820™

## Description

**Deposited As:** *Flexibacter polymorphus* Lewin

**Type strain:** Yes

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## Storage Conditions

**Product format:** Frozen

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## 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.

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## 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 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

### Medium:

ATCC Medium 754: *Flexibacter* medium

**Temperature:** 30°C

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## Handling Procedures

1. Thaw vial at room temperature and transfer contents to a single tube (5 to 6 ml) of #754 broth.
2. Incubate at 30°C for 3 to 4 days.
3. After 2 to 3 days incubation, use several drops of the suspension to inoculate a slant and/or plate.
4. Incubate the slant and/or plate at 30°C for 24 hours.

## Notes

This strain does not grow on agar immediately after revival. Growth in broth is indicated by turbidity.

For the production of the carotenoid pigment, the organism should be grown in the light. Incubation beyond the initial appearance of the pigment will result in the progressive autolysis and death of the organism accompanied by the disappearance of the pigment. Culture will remain viable on solid medium for only 4 days.

These cells will not survive refrigerator temperatures, so it is advisable to transfer or rapid freeze in liquid nitrogen using DMSO as the cryoprotectant. The addition of glycerol, even at low concentrations, leads to lysis and death of the cells.

The culture grows best when well aerated.

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

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Flexibacter polymorphus* Lewin (ATCC 27820)

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## References

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

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