




Product Sheet

Bifidobacterium longum *subsp. longum* (ATCC® 15707™)

Please read this **FIRST**



Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section



Biosafety Level
1

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: *Bifidobacterium longum subsp. longum* (ATCC® 15707™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: E194b (Variant a)

Deposited Name: *Bifidobacterium longum* Reuter

Product Description:

Type strain. Formerly *Bifidobacterium longum*. Produces restriction endonuclease *BloI*.

Propagation

Medium

ATCC® Medium 2107: Modified Reinforced Clostridial Agar/Broth Medium (pre-reduced)

ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

Growth Conditions

Temperature: 37°C

Atmosphere: Anaerobic gas mixture, 80% N₂-10%CO₂-10%H₂

Propagation Procedure

1. Let vial thaw at room temperature under a stream of anaerobic gas.
2. Once thawed draw the cells into an anaerobic syringe (see below) and inoculate one tube of #2107 broth.
3. Aseptically transfer 0.5 mL of this culture to a second tube of #2107. A slant of #2107 may also be inoculated with 0.2 mL of the culture. Streak several blood plates to check for colonial morphology and purity.
4. Incubate tubes under an anaerobic atmosphere at 37°C. Incubate the Brucella blood agar plate anaerobically for colony formation, and the blood agar plate aerobically for aerobic contamination check.
5. Within 48 hours, growth should be evident by turbidity and a smooth sediment in the broth, sediment at the base of the slant, and colonies on anaerobic agar surfaces. Colonies on Brucella blood agar are circular, entire, glistening, smooth, and raised. The aerobic plate may have a thin film in the area of heaviest inoculation, however it should show no other signs of aerobic growth. Best growth on anaerobic agar plates is achieved by subculturing an active broth culture.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Syringes can be made anaerobic by one of two methods: a) displace the dead space in the syringe with a sterile oxygen-free gas, or b) displace the dead space in the syringe with a reducing agent.

Notes

Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions. Resazurin in the media is a color indicator for anaerobic conditions.

Observance of pink color in medium before use or during incubation shows anaerobic conditions have not been met and oxidation has occurred. Medium should be discarded.

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

References

References and other information relating to this product are available online at 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 Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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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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