



Lactobacillus delbrueckii subsp. *bulgaricus* (Orla- Jensen) Weiss et al.

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Description

Lactobacillus delbrueckii subsp. *bulgaricus* strain Lb14 [IAM 12472, IFO 13953] is a whole-genome sequenced bacterial strain isolated from Bulgarian yogurt. This type strain has applications in bioinformatics and DNA hybridization.

Strain designation: Lb14 [IAM 12472, IFO 13953]

Deposited As: *Lactobacillus bulgaricus* (Orla-Jensen) Rogosa and Jensen

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 understand the hazards associated with the material per your organization's policies

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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 416: Lactobacilli MRS Agar/Broth

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Handling Procedures

1. Open vial.
2. Using a single tube of #416 broth (5 to 6 mL), withdraw approximately 0.5 to

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- 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
 3. Aseptically transfer this aliquot back into the broth tube. Mix well.
 4. Use several drops of the suspension to inoculate a #416 agar slant and/or plate.
 5. Incubate broth tubes at 37°C in an atmosphere of 5% CO₂. Loosen screw caps of all test tubes during the incubation period. Agar cultures must be incubated in a container with an AnaeroPack for successful growth. All cultures should show healthy growth within 24-48 hours.
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Notes

This culture may require growth to be established in broth before growth on agar can be achieved. **Best growth in broth is at 16-18 hours for harvesting.**

Purified genomic DNA of this strain is available (ATCC 11842D-5).

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: *Lactobacillus delbrueckii* subsp. *bulgaricus* (Orla-Jensen) Weiss et al. (ATCC 11842)

References

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

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