



# *Lactobacillus delbrueckii* subsp. *delbrueckii* (Leichmann) Weiss et al.

9649™

## Description

*Lactobacillus delbrueckii* subsp. *delbrueckii* strain 730 [Calvert, NCDO 213] is a whole-genome sequenced bacterial type strain that was isolated from sour grain mash. This culture produces D(-)lactic acid from corn sugar and molasses.

**Strain designation:** 730 [Calvert, NCDO 213]

**Deposited As:** *Lactobacillus delbrueckii* subsp. *delbrueckii* (Leichmann) Weiss et al.

**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

---

## *Lactobacillus delbrueckii* subsp. *delbrueckii* (Leichmann)

Weiss et al.

9649

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

---

### Growth Conditions

**Medium:**

ATCC Medium 416: Lactobacilli MRS Agar/Broth

**Temperature:** 37°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

---

### Handling Procedures

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

## ***Lactobacillus delbrueckii* subsp. *delbrueckii* (Leichmann)**

**Weiss et al.**

9649

- 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 the tubes and plate at 37°C for 24 to 48 hours in an atmosphere of 5% CO<sub>2</sub>. Ensure the screw caps loosen during an incubation period.
- 

### **Notes**

Growth on agar is improved when incubated in a sealed container with an Anaerobe Gas Pack. This serves to increase the CO<sub>2</sub> available to the organism and is not intended to provide a truly anaerobic environment. Do not incubate in an anaerobe chamber.

Purified genomic DNA of the strain is available (ATCC 9649DQ, ATCC 9649D-5).

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://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. *delbrueckii* (Leichmann) Weiss et al. (ATCC 9649)

---

### **References**

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

---

### **Warranty**

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30

## *Lactobacillus delbrueckii* subsp. *delbrueckii* (Leichmann)

Weiss et al.

9649

days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

---

### Disclaimers

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. Any proposed commercial use is prohibited without a [license from ATCC](#).

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and assumes all risk and responsibility in connection with the receipt, handling, storage, disposal, and use of the ATCC product including without limitation taking all appropriate safety and handling precautions to minimize health or environmental risk. As a condition of receiving the material, the customer agrees that any activity undertaken with the ATCC product and any progeny or modifications will be conducted in compliance with all applicable laws, regulations, and guidelines. This product is provided 'AS IS' with no representations or warranties whatsoever except

***Lactobacillus delbrueckii* subsp. *delbrueckii* (Leichmann)****Weiss et al.**

9649

as expressly set forth herein and in no event shall ATCC, its parents, subsidiaries, directors, officers, agents, employees, assigns, successors, and affiliates be liable for indirect, special, incidental, or consequential damages of any kind in connection with or arising out of the customer's use of the product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.

Please see the material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at [www.atcc.org](http://www.atcc.org).

---

**Copyright and Trademark Information**

© ATCC 2023. All rights reserved.

ATCC is a registered trademark of the American Type Culture Collection.

---

**Revision**

This information on this document was last updated on 2025-09-25

---

**Contact Information**

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

---