



***Lactiplantibacillus* *pentosus* (Zanoni et al. ex Fred et al.) Zheng et al.**

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Description

Lactiplantibacillus pentosus strain 124-2 is a whole-genome sequenced bacterial type strain that has applications in lactic acid production, acetic acid production, sawdust degradation, pentose fermentation, and hexose fermentation.

Strain designation: 124-2 [DSM 20314, NCDO 363, NCIB 8026]

Deposited As: *Lactobacillus pentosus* (Fred et al.) Zanoni 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

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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 the vial.
2. Rehydrate the entire pellet with approximately 0.5 mL of #416 broth.

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Aseptically transfer the entire contents to a 5-6 mL tube of #416 broth. Additional test tubes can be inoculated by transferring 0.5 mL from this primary broth tube to secondary broth tubes.

3. Use several drops of the suspension to inoculate a #416 agar slant and/or plate.
4. Incubate the tubes and plate at 37°C for 24 hours in an atmosphere of 5% CO₂. Loosen the screw caps during the incubation period.

Notes

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Lactiplantibacillus pentosus* (Zanoni et al. ex Fred et al.) Zheng et al. (ATCC 8041)

References

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

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Product Sheet

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