



***Komagataeibacter oboediens* (Sokollek et al.) Yamada et al.**

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Description

Komagataeibacter oboediens strain [NCIB 8034, NRC 6018] is a whole-genome sequenced bacterium that produces 2-keto-L-gulonic acid (provitamin C) by enzymatic conversion of sorbitol.

Strain designation: [NCIB 8034, NRC 6018]

Deposited As: *Acetobacter xylinum* (Brown) Bergey et al.

Type strain: No

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 1: Mannitol Agar/Broth

Temperature: 26°C

Atmosphere: Aerobic

Handling Procedures

1. Open vial.
2. Using a single tube of #1 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0

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- 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 #1 agar slant and/or plate. However, it is advisable to establish good growth in the primary tube before making subsequent transfers.
 5. Incubate the tubes and plate at 26°C for 48 to 72 hours. Additional incubation may be required for solid medium.
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Notes

This strain forms a pellicle at the surface of the broth as a result of cellulose production. This pellicle may sink to the bottom of the tube, resulting in new pellicle formation.

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: *Komagataeibacter oboediens* (Sokollek et al.) Yamada et al. (ATCC 10245)

References

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

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