



Christensenella sp

TSD-269™

Description

Christensenella sp. strain meth-B3 is a bacterial type strain isolated in 2021 from leachate at the Hafod Quarry Landfill. This strain grows best in oxygen-free nitrogen at 35°C.

Strain designation: meth-B3

Type strain: Yes

Type strain description: This culture provided to the ATCC type strain depository is neither produced nor characterized by ATCC. No technical information is available on this material. Refer to depositor for technical information on this strain.

Technical information: ATCC Product Experience does not have technical information on type strain deposits that are not fully characterized. Additional information can be found in the depositor's publication.

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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 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

Temperature: 35°C

Handling Procedures

Depositor-recommended growth conditions:

Grow in recommended media (preparation information listed below), at 35°C, in oxygen free nitrogen, and incubate for 5 to 7 days.

The basal medium used consisted of (1 Litter of distilled water): 0.5 g K_2HPO_4 , 0.5 g KH_2PO_4 , 0.5 g NH_4Cl , 0.4 g KCl , 0.05 g $CaCl_2 \cdot 2H_2O$, 0.3 g $MgCl_2 \cdot 6H_2O$, 0.4 g $NaCl$, 0.25 g HCl -Cysteine, 1 ml trace element mineral solution (composition below) and 1 ml resazurin 0.1% (w/v). 30g of Fastidious Anaerobic Broth and 2g of Tryptone were added to the medium and the pH is adjusted to 6.5.

The medium then was heated to boiling and until the medium turn colorless. The medium is then cooled at room temperature under a stream of O_2 -free nitrogen. The medium is finally sterilized by autoclaving for 20 min at 121 °C.

After autoclaving, solutions of $NaHCO_3$ (10%) and $Na_2S \cdot 9H_2O$ (2%; pH adjusted) were autoclaved separately and added to the medium (20 mL each) at room temperature. The medium was also supplemented with 1 ml of a filter sterilized (0.22 μm) vitamin solution (composition below). The final pH after adding solutions should be to pH 7.0 ± 0.1 .

Element mineral solution composition (Quantity for 1000 ml)

HCl (37%): 6.7 ml

$FeCl_2 \cdot 4H_2O^*$: 1500 mg

H_3BO_3 3: 6 mg

$MnCl_2 \cdot 4H_2O$: 100 mg

$CoCl_2 \cdot 6H_2O$: 190 mg

$ZnCl_2$: 70 mg

$NiCl_2 \cdot 6H_2O$: 24 mg

$CuCl_2 \cdot 2H_2O$: 2 mg

Na_2MoO_4 : 36 mg

Vitamin solution composition (Quantity for 100 ml)

Para-amino-benzoic acid: 25 mg

D-biotin: 10 mg

Cyanocobalamin: 0.5 mg

Thiamine-HCl: 25 mg

Riboflavin: 25 mg

Pyridoxal-HCl: 50 mg

DL-pantothenate de calcium: 25 mg

Nicotinic acid (niacine): 25 mg

Folic acid: 10 mg

Lipoic acid: 25 mg

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Christensenella* sp (ATCC TSD-269)

References

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

Warranty

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

ATCC is a private, nonprofit biological resource center (BRC) and research organization that holds deposits of new type strains. ATCC tests for viability and identity upon the initial deposit of type strains. For those strains with a "TSD" designation, no further testing is performed and these strains are made available on behalf of the depositor per the requirements of the International Journal of Systematic and Evolutionary Microbiology (IJSEM), published by the Society for General Microbiology (SGM), and the International Committee on Systematics of Prokaryotes (ICSP).

ATCC may fully accessions new type strains into its general culture collection. At that

time, ATCC will provide an “ATCC” designation to the strain, fully characterize the strain, and provide a Certificate of Analysis with authentication data for that specific item.

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 2022-09-03

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 or contact your local distributor
