Halobacterium bonnevillei Myers and King

TSD-126™

Description

Halobacterium bonnevillei strain PCN7 is a whole-genome sequenced type strain that was isolated in 2015 from salt crust at Bonneville Salt Flats, Utah.

Strain designation: PCN7
Deposited As: Halobacterium sp.
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 Technical Services 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: 40°C
Atmosphere: Aerobic
Incubation: 4 days

Handling Procedures

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Depositor-recommended growth conditions: 3.8M CM1 Medium aerobically at 40°C with shaking for ~4 days for log-phase growth.

3.8M CM1 (To prepare 1L)

829mL of 30% Salt Water (see below)
5mL of 23% MGM (see below)
55mL of deionized water
100mL of 250mM pyruvate

**After autoclaving add the following from sterile stocks:
5mL 1M NH_4Cl
2mL 0.5M K_2HPO_4
0.5mL 10X AML60 Solution C (see below)
0.5mL 10X AML60 Solution D (see below)
3mL 1000X Vitamin Solution (see below)

30% Salt Water (1L):
240g NaCl
24.87g $MgCl_2$ * $6H_2O$
29.015g $MgSO_4$*$7H_2O$
Dissolve salts completely then add 5mL $CaCl_2$*H_2O from a sterile 1M stock. Adjust pH to 7.5

23% MGM (100mL)
76.7mL 30% Salt Water
20mL deionized water
0.5g peptone (Don't use Difco Bacto-peptone, it was reported in 1988 to contain bile salts that lyse halobacteria, this was still the case in 2001)
0.1g yeast extract
Adjust pH to 7.5

AML60 Solution C (amounts are g/L for a 10X solution)
1.9g $CoCl_2*6H_2O$
1.0g $MnCl_2*4H_2O$
0.7g $ZnCl_2$
0.06g H_3BO_3
0.36g $Na_2MoO_4*2H_2O$
0.36g $NiCl_2*6H_2O$
0.02g $CuCl_2*H_2O$

AML60 Solution D (amounts are g/L for a 10X solution)
1.5g Ferrous Sulfate
99mL deionized water
1mL 1N sulfuric acid

Vitamin Solution (1L in H2O)
13mg p-aminobenzoic acid
33mg nicotinic acid
17mg hemicalcium D-(+)-pantothenate
33mg thiamine hydrochloride
17mg cyanocobalamin
10mg riboflavin

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Halobacterium bonnevillei* Myers and King (ATCC TSD-126)

References

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

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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.

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Revision

This information on this document was last updated on 2023-03-01

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