



Caproiciproducens reaktori

TSD-283™

Product Sheet

Description

Caproiciproducens reaktori strain 7D4C2 is a bacterial type strain isolated from a bioreactor inoculated with thermophilic sludge. This strain grows best in a supplemented basal medium at a pH of 5.2 - 6.0.

Strain designation: 7D4C2

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: 42°C

Atmosphere: 80% N₂, 20% CO₂

Incubation: 2-3 days

Handling Procedures

Depositor-recommended growth conditions:

Grow in supplemented basal medium at 25-45°C for 2-3 days at pH of 5.2-6.0 when inoculated in exponential phase.

Supplemented Basal Medium

Per liter:

NaCl 1.1 g

NH₄Cl 474 mg

CaCl₂ 2H₂O 100 mg

MgCl₂ 6H₂O 65 mg

KH₂PO₄ 150 mg

Na₂CO₃ 32 mg

Trace minerals Wolfe's soln. 20 mL

Na-butyrate 3.3 g

DI H₂O 856 mL

Sparge 30-40min N₂:CO₂ (80:20)

L-cysteine HCl 470 mg

FeCl₂ (10g/L stock) 0.125 mL

Autoclave 121 °C, 20 min

Yeast extract (10% w/v)^a 20 mL

Fructose or glucose (250 g/L)^a 22 mL

Vitamin solution 2x^a 2 mL

MES 1M^a 100 mL

Adjust to pH 5.5-6.5

^a filtered sterilized

2x vitamin solution

Per liter:

pyridoxine hydrochloride 20 mg

riboflavin 10 mg

nicotinic acid 10 mg

folic acid 4 mg

calcium pantothenate **10 mg**

p-amino benzoic acid 10 mg

d-biotin 4 mg

thiotic acid 10 mg
vitamin B12 10 mg
thiamine HCl 10 mg
2-mercaptoethanesulfonic acid 4 mg

Trace minerals Wolfe' modified

Per liter:

EDTA 0.5 g
MgCl₂ x 6H₂O 3.63 g
MnCl₂ x 4H₂O 427.1
NaCl 1m gg
FeCl₂ 219.3
CoCl₂ x 6H₂O 180 mg
CaCl₂ (anhydrous) 0.1 g
ZnCl₂ 210.9
CuCl₂ x 2H₂O 14.64
H₃BO₃ 0.010 g
Na₂MoO₄ x 2H₂O 0.010 g
Na₂SeO₃ (anhydrous) 0.001 g
Na₂WO₄ x 2H₂O 0.010 g
NiCl₂x 6H₂O 0.020 g

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Caproiciproducens reaktori* (ATCC TSD-283)

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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