



# Caproiciproducens reaktori

TSD-283™

## 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.

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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## 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.

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## BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as

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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.

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### **Certificate of Analysis**

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### **Growth Conditions**

**Temperature:** 42°C

**Atmosphere:** 80% N<sub>2</sub>, 20% CO<sub>2</sub>

**Incubation:** 2-3 days

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### **Handling Procedures**

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**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

NH<sub>4</sub>Cl 474 mg

CaCl<sub>2</sub> 2H<sub>2</sub>O 100 mg

MgCl<sub>2</sub> 6H<sub>2</sub>O 65 mg

KH<sub>2</sub>PO<sub>4</sub> 150 mg

Na<sub>2</sub>CO<sub>3</sub> 32 mg

Trace minerals Wolfe's soln. 20 mL

Na-butyrates 3.3 g

DI H<sub>2</sub>O 856 mL

**Sparge 30-40min N<sub>2</sub>:CO<sub>2</sub> (80:20)**

L-cysteine HCl 470 mg

FeCl<sub>2</sub> (10g/L stock) 0.125 mL

**Autoclave 121 °C, 20 min**

Yeast extract (10% w/v)<sup>a</sup> 20 mL

Fructose or glucose (250 g/L)<sup>a</sup> 22 mL

Vitamin solution 2x<sup>a</sup> 2 mL

MES 1M<sup>a</sup> 100 mL

**Adjust to pH 5.5-6.5**

<sup>a</sup> 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

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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  
MgCl<sub>2</sub> x 6H<sub>2</sub>O 3.63 g  
MnCl<sub>2</sub> x 4H<sub>2</sub>O 427.1  
NaCl 1m gg  
FeCl<sub>2</sub> 219.3  
CoCl<sub>2</sub> x 6H<sub>2</sub>O 180 mg  
CaCl<sub>2</sub> (anhydrous) 0.1 g  
ZnCl<sub>2</sub> 210.9  
CuCl<sub>2</sub> x 2H<sub>2</sub>O 14.64  
H<sub>3</sub>BO<sub>3</sub> 0.010 g  
Na<sub>2</sub>MoO<sub>4</sub> x 2H<sub>2</sub>O 0.010 g  
Na<sub>2</sub>SeO<sub>3</sub> (anhydrous) 0.001 g  
Na<sub>2</sub>WO<sub>4</sub> x 2H<sub>2</sub>O 0.010 g  
NiCl<sub>2</sub>x 6H<sub>2</sub>O 0.020 g

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**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)

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**References**

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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**Warranty**

## *Caproiciproducens reaktori*

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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**

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## ***Caproiciproducens reaktori***

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