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 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: 42°C
Atmosphere: 80% N_2, 20% CO_2
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
NH_4Cl 474 mg
$CaCl_2$ $2H_20$ 100 mg
$MgCl_2$ $6H_20$ 65 mg
KH_2PO_4 150 mg
Na_2CO_3 32 mg

Trace minerals Wolfe's soln. 20 mL
Na-butyrate 3.3 g
DI H_2O 856 mL
Sparge 30-40min N_2:CO_2 (80:20)
L-cysteine HCl 470 mg
$FeCl_2$ (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
$MgCl_2$ x $6H_2O$ 3.63 g
$MnCl_2$ x $4H_2O$ 427.1
NaCl 1m gg
$FeCl_2$ 219.3
$CoCl_2$ x $6H_2O$ 180 mg
$CaCl_2$ (anhydrous) 0.1 g
$ZnCl_2$ 210.9
$CuCl_2$ x $2H_2O$ 14.64
H_3BO_3 0.010 g
Na_2MoO_4 x $2H_2O$ 0.010 g
Na_2SeO_3 (anhydrous) 0.001 g
Na_2WO_4 x $2H_2O$ 0.010 g
$NiCl_2$x $6H_2O$ 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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Revision

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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