



Strain identifier

BacDive ID: 17800 **DOI:** 10.13145/bacdive17800.20190402.4
Type strain: yes **Designation:** 345-15
Culture col. no.: DSM 16705, JCM 18335, VKM B-2471

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Name and taxonomic classification

Ref.: 6576	Domain	Archaea
Ref.: 6576	Phylum	Crenarchaeota
Ref.: 6576	Class	Crenarchaeota
Ref.: 6576	Order	Acidilobales
Ref.: 6576	Family	Acidilobaceae
Ref.: 6576	Genus	Acidilobus
Ref.: 6576	Species	Acidilobus saccharovorans
Ref.: 6576	Full Scientific Name	Acidilobus saccharovorans Prokofeva et al. 2009
Ref.: 6576	Designation:	345-15
Ref.: 6576	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Archaea
Ref.: 20215	Phylum	Crenarchaeota
Ref.: 20215	Class	Crenarchaeota
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 52:14*
Ref.: 20215	Family	Acidilobaceae
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 59:3120*
Ref.: 20215	Genus	Acidilobus

Ref.: 20215	Taxonomical status	gen. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 50:2001*
Ref.: 20215	Species	Acidilobus saccharovorans
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 59:3116*
Ref.: 20215	Full Scientific Name	Acidilobus saccharovorans Prokofeva et al. 2009

Morphology and physiology

Ref.: 6576	Incubation period	3-7 days
Ref.: 6576	Oxygen tolerance	anaerobe

Culture and growth conditions

Ref.: 6576	Culture medium	ACIDOLOBUS ACETICUS MEDIUM (DSMZ Medium 901), 80°C, with strain-specific modifications, anaerobic
Ref.: 6576	Culture medium growth	yes
Ref.: 6576	Culture medium link	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium901.pdf

Ref.: 6576	Temperatures	Kind of temperature	Temperature
		growth	80 °C

Ref.: 6576	Temperature range	hyperthermophilic
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Isolation, sampling and environmental information

Ref.: 6576	Sample type/isolated from	mixture of water and mud from an acidic terrestrial hot pool
Ref.: 6576	Geographic location (country and/or sea, region)	Kamchatka Peninsula, Orange Thermal Field, 54° 30' 40" N 160° 00' 06" E
Ref.: 6576	Country	Russia
Ref.: 6576	Continent	Asia
Ref.: 6576	Geographic location	54.5111°/160.002°

Isolation sources categories	Cat1	Cat2	Cat3
	#Environmental	#Aquatic	-

#Environmental	#Aquatic	#Mud (Sludge)
#Condition	#Acidic	-
#Condition	#Thermophilic (>45°C)	-

Application and interaction

Ref.: 6576 **Biosafety level** 1 Risk group (German classification)

Molecular biology

Ref.: 6576 **GC-content** 54.5 mol% thermal denaturation, midpoint method (T_m)

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 6576	GenBank Genome project data	Acidilobus saccharovorans 345-15, complete genome	CP001742	1496453	666510
Ref.: 6576	GenBank Direct submission	Acidilobus saccharovorans strain 345-15 16S ribosomal RNA gene, partial sequence	AY350586	1451	666510

Strain availability

Ref.: 6576 **Culture collection no.** DSM 16705, JCM 18335, VKM B-2471

Ref.: 6576 **Strain history** <- M. Prokofeva, Winogradsky Inst. Microbiol., RAS, Moscow, Russia; 345-15 <- M. Prokofeva {1999}

Associated Passport(s) in StrainInfo

Ref.: 20218 845999 - <http://www.straininfo.net/strains/845999>

Ref.: 20218 846000 - <http://www.straininfo.net/strains/846000>

References

Ref.: 6576 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 16705

Ref.: 20215 D.Gleim, M.Kracht, N.Weiss et. al.: Prokaryotic Nomenclature Up-to-date - compilation of all names of Bacteria and Archaea, validly published according to the Bacteriological Code since 1. Jan. 1980, and validly published nomenclatural changes since.

Ref.: 20218 Verslyppe, B., De Smet, W., De Baets, B., De Vos, P., Dawyndt P. StrainInfo introduces electronic passports for microorganisms.. Syst Appl Microbiol. 37: 42-50 2014 (10.1016/j.syapm.2013.11.002, 24321274)

* These References are textmined

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