

Strain identifier

BacDive ID: 134340 **DOI:** 10.13145/bacdiv134340.20190402.4
Type strain: yes **Designation:** HIS40-3
Culture col. no.: BCC 24370, JCM 14663, PCU 303

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Name and taxonomic classification

Ref.: 32533	Domain	Archaea
Ref.: 32533	Phylum	Euryarchaeota
Ref.: 32533	Class	Halobacteria
Ref.: 32533	Family	Natrialbaceae
Ref.: 32533	Genus	Natrinema
Ref.: 32533	Species	Natrinema gari
Ref.: 32533	Designation:	HIS40-3
Ref.: 32533	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Archaea
Ref.: 20215	Phylum	Euryarchaeota
Ref.: 20215	Class	Halobacteria
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 52:685
Ref.: 20215	Family	Natrialbaceae
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 65:1065*
Ref.: 20215	Genus	Natrinema
Ref.: 20215	Taxonomical status	gen. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 48:1187*
Ref.: 20215	Species	Natrinema gari

Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 58:2378*
Ref.: 20215	Full Scientific Name	Natrinema gari Tapingkae et al. 2008

Morphology and physiology

Ref.: 32533	Gram stain	positive
Ref.: 32533	Cell length	02-03 µm
Ref.: 32533	Cell width	0.5-0.8 µm
Ref.: 32533	Cell shape	rod-shaped
Ref.: 32533	Motility	yes

	Enzymes	Enzyme	Enzyme activity	EC number
Ref.: 32533		catalase	+	1.11.1.6
Ref.: 32533		cytochrome oxidase	+	1.9.3.1

	Halophily	Salt	Tested relation	Salt conc.
Ref.: 32533		NaCl	growth	9.86-19.72 %
Ref.: 32533		NaCl	optimum	15.08-19.72 %

	Metabolite utilization	Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
Ref.: 32533		22599	Arabinose	+	carbon source
Ref.: 32533		17234	Glucose	+	carbon source
Ref.: 32533		17754	Glycerol	+	carbon source

Ref.: 32533 **Decomposition/lysis** aggregates in chains

Ref.: 32533 **Oxygen tolerance** aerobe

Ref.: 32533 **Ability of spore formation** no

Culture and growth conditions

	Temperatures	Kind of temperature	Temperature
Ref.: 32533		growth	20-60 °C
Ref.: 32533		optimum	37-40 °C

	pH	Kind of pH	pH
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Ref.: 32533

growth	5.5-8.5
optimum	6-6.5

Ref.: 32533

Isolation, sampling and environmental information

Ref.: 32533 **Sample type/isolated from** anchovy fish sauce

Isolation sources categories

Cat1	Cat2	Cat3
#Engineered	#Food production	-

Molecular biology

Ref.: 32533 **GC-content** 64-65.4 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 32533	GenBank/EMBL/DDBJ		AB289741		

Strain availability

Ref.: 32533 **Culture collection no.** BCC 24370, JCM 14663, PCU 303

Associated Passport(s) in StrainInfo

Ref.: 20218 834845 - <http://www.straininfo.net/strains/834845>

Ref.: 20218 834846 - <http://www.straininfo.net/strains/834846>

Ref.: 20218 834847 - <http://www.straininfo.net/strains/834847>

References

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)

Ref.: 32533 Barberan A, Caceres Velazquez H, Jones S, Fierer N. Hiding in Plain Sight: Mining Bacterial Species Records for Phenotypic Trait Information. mSphere 2: None-None 2017 (10.1128/mSphere.00237-17, None) - **originally annotated from #28751**

Ref.: 28751 IJSEM 2378 2008 (10.1099/ijms.0.65644-0)

* These References are textmined

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