



Strain identifier

BacDive ID: 16395 **DOI:** 10.13145/bacdiv16395.20190402.4
Type strain: yes
Culture col. no.: DSM 41839, CCTCC AA 203015, CIP 107975, YIM 80305

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Name and taxonomic classification

Ref.: 10622	Domain	Bacteria
Ref.: 10622	Phylum	Actinobacteria
Ref.: 10622	Class	Actinobacteria
Ref.: 10622	Order	Actinomycetales
Ref.: 10622	Family	Streptomycetaceae
Ref.: 10622	Genus	Streptomyces
Ref.: 10622	Species	Streptomyces sodiiphilus
Ref.: 10622	Full Scientific Name	Streptomyces sodiiphilus Li et al. 2005
Ref.: 10622	Designation:	None
Ref.: 10622	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Actinobacteria
Ref.: 20215	Class	Actinobacteria
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 47:483*
Ref.: 20215	Family	Streptomycetaceae
Ref.: 20215	Genus	Streptomyces
Ref.: 20215	Taxonomical status	genus (AL)



Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:225
Ref.: 20215	Species	Streptomyces sodiiphilus
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 55:1329*
Ref.: 20215	Full Scientific Name	Streptomyces sodiiphilus Li et al. 2005

Morphology and physiology

Ref.: 31389	Gram stain	positive
Ref.: 31389	Motility	no

Ref.: 31389	Enzymes	Enzyme	Enzyme activity
		gelatinase	+

Ref.: 31389	Halophily	Salt	Tested relation	Salt conc.
		NaCl	optimum	3 %

Ref.: 31389 Ref.: 31389 Ref.: 31389	Metabolite utilization	Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
		15366	Acetic acid	+	carbon source
		17632	Nitrate	+	reduction
		26546	Rhamnose	+	carbon source

Ref.: 10622

Multimedia content



Ref.: 10622

Caption

Medium 535 28°C

Ref.: 10622

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Ref.: 31389

Oxygen tolerance

aerobe

Ref.: 31389

Ability of spore formation

yes

Culture and growth conditions

Ref.: 10622

Culture medium

TRYPTICASE SOY BROTH AGAR (DSMZ Medium 535), 28°C

Ref.: 10622

Culture medium growth

yes

Ref.: 10622

Culture medium link

https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium535.pdf

Ref.: 33185

Culture medium

MEDIUM 72- for trypto casein soja agar

Ref.: 33185

Culture medium growth

yes



Ref.: 33185 **Culture medium composition** Distilled water make up to (1000.000 ml);Trypto casein soy agar (40.000 g)

Ref.: 10622 Ref.: 31389 Ref.: 33185	Temperatures	Kind of temperature	Temperature
		growth	28 °C
		optimum	28 °C
		growth	30 °C

Ref.: 10622 **Temperature range** mesophilic
 Ref.: 31389 **Temperature range** mesophilic
 Ref.: 33185 **Temperature range** mesophilic

Ref.: 31389 Ref.: 31389	pH	Kind of pH	pH
		growth	7.0-8.0
		optimum	8

Isolation, sampling and environmental information

Ref.: 10622 **Sample type/isolated from** soil
 Ref.: 10622 **Geographic location (country and/or sea, region)** Qinghaj Province
 Ref.: 10622 **Country** China
 Ref.: 10622 **Continent** Asia

Isolation sources categories	Cat1	Cat2	Cat3
	#Environmental	#Terrestrial	#Soil

Application and interaction

Ref.: 10622 **Biosafety level** 1 Risk group (German classification)

Molecular biology

Ref.: 10622 **GC-content** 70.5 mol%
 Ref.: 31389 **GC-content** 70.5 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID



Ref.: 31389	GenBank/EMBL/DDBJ	Streptomyces sodiiphilus strain YIM 80305 16S ribosomal RNA gene, partial sequence	AY236339	1489	226217
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Strain availability

Ref.: 10622	Culture collection no.	DSM 41839, CCTCC AA 203015, CIP 107975, YIM 80305
Ref.: 10622	Strain history	<- W.-J. Li, YIM
Ref.: 33185	Strain history	2003, W.J. Li, Yunnan Univ., Kunming, China: strain YIM 80305

Associated Passport(s) in StrainInfo

Ref.: 20218	387867 - http://www.straininfo.net/strains/387867
Ref.: 20218	387865 - http://www.straininfo.net/strains/387865
Ref.: 20218	387866 - http://www.straininfo.net/strains/387866
Ref.: 20218	381308 - http://www.straininfo.net/strains/381308

References

Ref.: 10622	Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 41839
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.: 31389	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 #27700
Ref.: 27700	IJSEM 1329 2005 (10.1099/ijs.0.63457-0)
Ref.: 33185	None; Curators of the CIP; None

* **These References are textmined**

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