



Strain identifier

BacDive ID: 17109 **DOI:** 10.13145/bacdive17109.20190402.4
Type strain: no **Designation:** Y2
Culture col. no.: DSM 45557, JCM 15482, KCCM 42885

Sections

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Name and taxonomic classification

Ref.: 17643	Domain	Bacteria
Ref.: 17643	Phylum	Actinobacteria
Ref.: 17643	Class	Actinobacteria
Ref.: 17643	Order	Actinomycetales
Ref.: 17643	Family	Tsukamurellaceae
Ref.: 17643	Genus	Tsukamurella
Ref.: 17643	Species	Tsukamurella tyrosinosolvens
Ref.: 17643	Full Scientific Name	Tsukamurella carboxydivorans Park et al. 2009
Ref.: 17643	Designation:	Y2
Ref.: 17643	Type strain:	no

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	Tsukamurellaceae
Ref.: 20215	Genus	Tsukamurella
Ref.: 20215	Taxonomical status	gen. nov. (VP)

Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 38:385*
Ref.: 20215	Species	Tsukamurella tyrosinosolvans
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 47:607*
Ref.: 20215	Full Scientific Name	Tsukamurella tyrosinosolvans Yassin et al. 1997 emend. Teng et al. 2016
Ref.: 20215	Synonym	Tsukamurella carboxydivorans

Morphology and physiology

Ref.: 29089	Gram stain	positive
Ref.: 29089	Motility	no

Ref.: 29089	Enzymes	Enzyme	Enzyme activity	EC number
		cytochrome oxidase	+	1.9.3.1

Ref.: 29089 Ref.: 29089	Halophily	Salt	Tested relation	Salt conc.
		NaCl	growth	0-6 %
		NaCl	optimum	3 %

Ref.: 29089 Ref.: 29089 Ref.: 29089 Ref.: 29089 Ref.: 29089 Ref.: 29089 Ref.: 29089 Ref.: 29089 Ref.: 29089	Metabolite utilization	Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
		22599	Arabinose	+	carbon source
		17057	Cellobiose	+	carbon source
		28757	Fructose	+	carbon source
		17306	Maltose	+	carbon source
		29864	Mannitol	+	carbon source
		33942	Ribose	+	carbon source
		30911	Sorbitol	+	carbon source
		16199	Urea	+	carbon source
		18222	Xylose	+	carbon source

Ref.: 29089	Oxygen tolerance	aerobe
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Culture and growth conditions

Ref.: 17643	Culture medium	TRYPTICASE SOY BROTH AGAR (DSMZ Medium 535), 28°C
Ref.: 17643	Culture medium growth	yes



Ref.: 17643 **Culture medium link** https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium535.pdf

Ref.: 17643 Ref.: 29089 Ref.: 29089	Temperatures	Kind of temperature	Temperature
		growth	28 °C
		growth	10-45 °C
		optimum	30 °C

Ref.: 17643 **Temperature range** mesophilic

Ref.: 29089 **Temperature range** mesophilic

Isolation, sampling and environmental information

Ref.: 17643 **Sample type/isolated from** subsurface soil (10cm depth) from the side of a busy road at Yonsei University

Ref.: 17643 **Geographic location (country and/or sea, region)** Seoul

Ref.: 17643 **Country** Republic of Korea

Ref.: 17643 **Continent** Asia

Isolation sources categories

Cat1	Cat2	Cat3
#Environmental	#Terrestrial	#Soil

Application and interaction

Ref.: 17643 **Biosafety level** 2 Risk group (German classification)

Molecular biology

Ref.: 17643 **GC-content** 77 mol% high performance liquid chromatography (HPLC)

Ref.: 29089 **GC-content** 77 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 17643	INSDC (WGS)	Tsukamurella tyrosinosolvans strain JCM 15482, whole genome shotgun sequencing project	LSRG00000000	28	57704



Ref.: 17643	GenBank Direct submission	Tsukamurella carboxydivorans strain Y2 16S ribosomal RNA gene, partial sequence	EU521689	1512	57704
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Strain availability

[Ref.: 17643](#) **Culture collection no.** DSM 45557, JCM 15482, KCCM 42885

[Ref.: 17643](#) **Strain history** <- JCM <- Y. M. Kim; Y2

Associated Passport(s) in StrainInfo

[Ref.: 20218](#) 842395 - <http://www.straininfo.net/strains/842395>

[Ref.: 20218](#) 842396 - <http://www.straininfo.net/strains/842396>

References

[Ref.: 17643](#) Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 45557

[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.: 29089](#) 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 #25518**

[Ref.: 25518](#) IJSEM 1541 2009 (10.1099/ijs.0.005959-0)

*** These References are textmined**

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