

### Strain identifier

**BacDive ID:** 11343      **DOI:** 10.13145/bacdiv11343.20190402.4  
**Type strain:** yes      **Designation:** NEU98 TA17  
**Culture col. no.:** DSM 15506, LMG 21571, CCUG 48438

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### Name and taxonomic classification

Ref.: 5966	<b>Domain</b>	Bacteria
Ref.: 5966	<b>Phylum</b>	Proteobacteria
Ref.: 5966	<b>Class</b>	Betaproteobacteria
Ref.: 5966	<b>Order</b>	Burkholderiales
Ref.: 5966	<b>Family</b>	Oxalobacteraceae
Ref.: 5966	<b>Genus</b>	Oxalicibacterium
Ref.: 5966	<b>Species</b>	Oxalicibacterium flavum
Ref.: 5966	<b>Full Scientific Name</b>	Oxalicibacterium flavum Tamer et al. 2003
Ref.: 5966	<b>Designation:</b>	NEU98 TA17
Ref.: 5966	<b>Type strain:</b>	yes

#### **Prokaryotic Nomenclature Up-to-date (PNU)**

Ref.: 20215	<b>Domain</b>	Bacteria
Ref.: 20215	<b>Phylum</b>	Proteobacteria
Ref.: 20215	<b>Class</b>	Betaproteobacteria
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 56:1
Ref.: 20215	<b>Family</b>	Oxalobacteraceae
Ref.: 20215	<b>Genus</b>	Oxalicibacterium
Ref.: 20215	Taxonomical status	gen. nov. (VL)



Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 53:627
Ref.: 20215	<b>Species</b>	Oxalicibacterium flavum
Ref.: 20215	Taxonomical status	sp. nov. (VL)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 53:627
Ref.: 20215	<b>Full Scientific Name</b>	Oxalicibacterium flavum Tamer et al. 2003

## Morphology and physiology

Ref.: 58160	<b>Oxygen tolerance</b>	aerobe
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## Culture and growth conditions

Ref.: 5966	<b>Culture medium</b>	NUTRIENT AGAR (DSMZ Medium 1), 28°C, with 1% glycerol and 0.4% K- or Na-oxalate, rehydrate and grow lyophilisate in liquid medium 1. Subsequently, subculturing may be carried out in liquid medium or on agar plates
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Ref.: 5966	<b>Culture medium growth</b>	yes
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Ref.: 5966	<b>Culture medium link</b>	<a href="https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium1.pdf">https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium1.pdf</a>
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Ref.: 33176	<b>Culture medium</b>	MEDIUM 471 - for Oxalicibacterium flavum
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Ref.: 33176	<b>Culture medium growth</b>	yes
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Ref.: 33176	<b>Culture medium composition</b>	Distilled water make up to (1000.000 ml);Sodium chloride (5.000 g);Agar(15.000 g);Yeast extract (2.000 g);Peptone (5.000 g);Glycerol (10.000 ml);Beef extract(1.000 g);Potassium oxalate (4.000 g)
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	<b>Temperatures</b>	
Ref.: 5966		
Ref.: 33176		
Ref.: 58160		

Kind of temperature	Temperature
growth	28 °C
growth	30 °C
growth	28-37 °C

Ref.: 5966	<b>Temperature range</b>	mesophilic
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Ref.: 33176	<b>Temperature range</b>	mesophilic
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Ref.: 58160	<b>Temperature range</b>	mesophilic
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## Isolation, sampling and environmental information

Ref.: 5966	<b>Sample type/isolated from</b>	soil litter from close-to-ice-plant (Mesembryanthemum sp.)
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Ref.: 5966	<b>Host species</b>	Mesembryanthemum
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Ref.: 5966	<b>Geographic location (country and/or sea, region)</b>	Izmir
Ref.: 5966	<b>Country</b>	Turkey
Ref.: 5966	<b>Continent</b>	Asia
Ref.: 58160	<b>Sample type/isolated from</b>	Soil litter close to Mesembryanthemum sp.
Ref.: 58160	<b>Sampling date</b>	1982
Ref.: 58160	<b>Geographic location (country and/or sea, region)</b>	Izmir
Ref.: 58160	<b>Country</b>	Turkey
Ref.: 58160	<b>Continent</b>	Asia

**Isolation sources categories**

Cat1	Cat2	Cat3
#Environmental	#Terrestrial	#Soil
#Host	#Plants	#Herbaceous plants (Grass,Crops)

**Application and interaction**

Ref.: 5966	<b>Biosafety level</b>	1 Risk group (German classification)
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**Molecular biology**

Ref.: 5966	<b>GC-content</b>	63 mol%
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	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 20218	Marker Gene (GenBank Direct submission)	Oxalicibacterium flavum strain TA17 60 kDa chaperonin (cpn60) gene, partial cds	FJ860273	555	179467
Ref.: 5966	GenBank Direct submission	Oxalicibacterium flavum strain TA17 16S ribosomal RNA gene, partial sequence	AY061962	1485	179467

**Strain availability**

Ref.: 5966	<b>Culture collection no.</b>	DSM 15506, LMG 21571, CCUG 48438
Ref.: 5966	<b>Strain history</b>	<- A. Ü. Tamer; TA17

**Associated Passport(s) in StrainInfo**

Ref.: 20218 340620 - <http://www.straininfo.net/strains/340620>

Ref.: 20218 279246 - <http://www.straininfo.net/strains/279246>

**References**

Ref.: 5966 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 15506

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.: 33176 None; Curators of the CIP; None

Ref.: 58160 Culture Collection University of Gothenburg (CCUG); Curators of the CCUG; CCUG 48438

**\* These References are textmined**

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