

## Strain identifier

**BacDive ID:** 14252      **DOI:** 10.13145/bacdive14252.20190402.4  
**Type strain:** yes      **Designation:** TDMA-16  
**Culture col. no.:** DSM 18422, CCUG 53607, NBRC 102120, CIP 109619

## Sections

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## Name and taxonomic classification

<a href="#">Ref.: 7547</a>	<b>Domain</b>	Bacteria
<a href="#">Ref.: 7547</a>	<b>Phylum</b>	Proteobacteria
<a href="#">Ref.: 7547</a>	<b>Class</b>	Alphaproteobacteria
<a href="#">Ref.: 7547</a>	<b>Order</b>	Sphingomonadales
<a href="#">Ref.: 7547</a>	<b>Family</b>	Sphingomonadaceae
<a href="#">Ref.: 7547</a>	<b>Genus</b>	Sphingomonas
<a href="#">Ref.: 7547</a>	<b>Species</b>	Sphingomonas jaspsi
<a href="#">Ref.: 7547</a>	<b>Full Scientific Name</b>	Sphingomonas jaspsi Asker et al. 2007
<a href="#">Ref.: 7547</a>	<b>Designation:</b>	TDMA-16
<a href="#">Ref.: 7547</a>	<b>Type strain:</b>	yes

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

<a href="#">Ref.: 20215</a>	<b>Domain</b>	Bacteria
<a href="#">Ref.: 20215</a>	<b>Phylum</b>	Proteobacteria
<a href="#">Ref.: 20215</a>	<b>Class</b>	Alphaproteobacteria
<a href="#">Ref.: 20215</a>	Literature reference	Int. J. Syst. Evol. Microbiol. 56:1
<a href="#">Ref.: 20215</a>	<b>Family</b>	Sphingomonadaceae
<a href="#">Ref.: 20215</a>	<b>Genus</b>	Sphingomonas
<a href="#">Ref.: 20215</a>	Taxonomical status	gen. nov. (VL)



Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 40:320
Ref.: 20215	<b>Species</b>	Sphingomonas jaspsi
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 57:1435*
Ref.: 20215	<b>Full Scientific Name</b>	Sphingomonas jaspsi Asker et al. 2007

## Morphology and physiology

Ref.: 32024	<b>Gram stain</b>	negative
Ref.: 32024	<b>Cell length</b>	0.85 µm
Ref.: 32024	<b>Cell width</b>	0.45 µm
Ref.: 32024	<b>Cell shape</b>	rod-shaped
Ref.: 32024	<b>Motility</b>	yes
Ref.: 7547	<b>Name of produced compound</b>	carotenoids

Enzymes	Enzyme	Enzyme activity	EC number
Ref.: 32024	catalase	+	1.11.1.6
Ref.: 32024	gelatinase	+	
Ref.: 32024	cytochrome oxidase	+	1.9.3.1

Halophily	Salt	Tested relation	Salt conc.
Ref.: 32024	NaCl	growth	0.0-0.25 %

Metabolite utilization	Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
Ref.: 32024	17234	Glucose	+	carbon source
Ref.: 32024	17306	Maltose	+	carbon source
Ref.: 32024	53426	Tween 80	+	carbon source

Ref.: 32024      **Oxygen tolerance**      aerobe

Ref.: 32024      **Ability of spore formation**      no

## Culture and growth conditions

Ref.: 7547      **Culture medium**      R2A MEDIUM (DSMZ Medium 830), 37°C

Ref.: 7547      **Culture medium growth**      yes

Ref.: 7547	<b>Culture medium link</b>	<a href="https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium830.pdf">https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium830.pdf</a>										
Ref.: 7547	<b>Culture medium</b>	NUTRIENT AGAR (DSMZ Medium 1), 37°C										
Ref.: 7547	<b>Culture medium growth</b>	yes										
Ref.: 7547	<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>										
Ref.: 36826	<b>Culture medium</b>	MEDIUM 328- for nutrient agar										
Ref.: 36826	<b>Culture medium growth</b>	yes										
Ref.: 36826	<b>Culture medium composition</b>	Distilled water make up to (1000.000 ml);Agar (15.000 g);Peptone (5.000g);Beef extract (3.000 g)										
	<b>Temperatures</b>	<table border="1"> <thead> <tr> <th>Kind of temperature</th> <th>Temperature</th> </tr> </thead> <tbody> <tr> <td>growth</td> <td>37 °C</td> </tr> <tr> <td>growth</td> <td>20-40 °C</td> </tr> <tr> <td>optimum</td> <td>36 °C</td> </tr> <tr> <td>growth</td> <td>37 °C</td> </tr> </tbody> </table>	Kind of temperature	Temperature	growth	37 °C	growth	20-40 °C	optimum	36 °C	growth	37 °C
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Ref.: 7547	<b>Temperature range</b>	mesophilic										
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growth	6.0-9.0											
optimum	6.5											
Ref.: 32024												
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### Isolation, sampling and environmental information

Ref.: 7547	<b>Sample type/isolated from</b>	fresh water
Ref.: 7547	<b>Geographic location (country and/or sea, region)</b>	Misasa, Tottori
Ref.: 7547	<b>Country</b>	Japan
Ref.: 7547	<b>Continent</b>	Asia
Ref.: 59942	<b>Sampling date</b>	2000
Ref.: 59942	<b>Geographic location (country and/or sea, region)</b>	Tottori, Misasa

Ref.: 59942      **Country**                      Japan

Ref.: 59942      **Continent**                              Asia

**Isolation sources categories**

Cat1	Cat2	Cat3
#Environmental	#Aquatic	#Freshwater

**Application and interaction**

Ref.: 7547      **Biosafety level**                      1 Risk group (German classification)

**Molecular biology**

Ref.: 32024      **GC-content**                              63.3 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID	
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 30S ribosomal protein S19, complete cds, strain: NBRC 102120T	AB675215	276	392409	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 50S ribosomal protein L22, complete cds, strain: NBRC 102120T	AB675216	378	392409	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 50S ribosomal protein L29, complete cds, strain: NBRC 102120T	AB675217	207	392409	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 30S ribosomal protein S17, complete cds, strain: NBRC 102120T	AB675218	270	392409	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 50S ribosomal protein L24, complete cds, strain: NBRC 102120T	AB675219	321	392409	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 30S ribosomal protein S14, complete cds, strain: NBRC 102120T	AB675220	306	392409	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 30S ribosomal protein S08, complete cds, strain: NBRC 102120T	AB675221	396	392409	*



Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 50S ribosomal protein L18, complete cds, strain: NBRC 102120T	AB675222	354	392409	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 50S ribosomal protein L30, complete cds, strain: NBRC 102120T	AB675223	177	392409	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Sphingomonas jaspsi gene for 16S rRNA, partial sequence, strain: NBRC 102120	AB681706	1408	392409	*
Ref.: 7547	INSDC (WGS)	Sphingomonas jaspsi DSM 18422, whole genome shotgun sequencing project	JFBW00000000	2	1123268	
Ref.: 7547	DDBJ EMBL Direct submission		AB264131			

## Strain availability

Ref.: 7547      **Culture collection no.**      DSM 18422, CCUG 53607, NBRC 102120, CIP 109619

Ref.: 7547      **Strain history**      <- K. Ueda, Nihon Univers., Fujisawa, Japan

Ref.: 36826      **Strain history**      2007, CCUG

### **Associated Passport(s) in StrainInfo**

Ref.: 20218      720900 - <http://www.straininfo.net/strains/720900>

Ref.: 20218      720899 - <http://www.straininfo.net/strains/720899>

Ref.: 20218      745868 - <http://www.straininfo.net/strains/745868>

## References

Ref.: 7547      Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 18422

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.: 32024      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 #28276**

Ref.: 28276      IJSEM 1435 2007 (10.1099/ijms.0.64828-0)

[Ref.: 36826](#)      None; Curators of the CIP; None

[Ref.: 59942](#)      Culture Collection University of Gothenburg (CCUG); Curators of the CCUG; CCUG 53607

**\* These References are textmined**

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