

Strain identifier

BacDive ID: 11351 **DOI:** 10.13145/bacdive11351.20190402.4
Type strain: yes **Designation:** SA 32
Culture col. no.: DSM 732, ATCC 29984, CCUG 12808, LMG 4326, CIP 107295, IAM 14942, NBRC 15327

Sections

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Name and taxonomic classification

Ref.: 377	Domain	Bacteria
Ref.: 377	Phylum	Proteobacteria
Ref.: 377	Class	Betaproteobacteria
Ref.: 377	Order	Burkholderiales
Ref.: 377	Family	Oxalobacteraceae
Ref.: 377	Genus	Herbaspirillum
Ref.: 377	Species	Herbaspirillum autotrophicum
Ref.: 377	Full Scientific Name	Herbaspirillum autotrophicum (Aragno and Schlegel 1978) Ding and Yokota 2004
Ref.: 377	Designation:	SA 32
Ref.: 377	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Proteobacteria
Ref.: 20215	Class	Betaproteobacteria
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 56:1
Ref.: 20215	Family	Oxalobacteraceae
Ref.: 20215	Genus	Herbaspirillum
Ref.: 20215	Taxonomical status	gen. nov. (VP)



Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 36:86*
Ref.: 20215	Species	Herbaspirillum autotrophicum
Ref.: 20215	Taxonomical status	comb. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 54:2223*
Ref.: 20215	Full Scientific Name	Herbaspirillum autotrophicum (Aragno and Schlegel 1978) Ding and Yokota 2004
Ref.: 20215	Synonym	Aquaspirillum autotrophicum

Morphology and physiology

Ref.: 45831	Oxygen tolerance	aerobe
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Culture and growth conditions

Ref.: 377	Culture medium	SPIRILLUM MEDIUM (DSMZ Medium 37), 28°C
Ref.: 377	Culture medium growth	yes
Ref.: 377	Culture medium link	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium37.pdf

Ref.: 377	Culture medium	MINERAL MEDIUM FOR CHEMOLITHOTROPHIC GROWTH (H-3) (DSMZ Medium 81), 28°C
Ref.: 377	Culture medium growth	yes
Ref.: 377	Culture medium link	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium81.pdf

Ref.: 33759	Culture medium	MEDIUM 14 - Williams and Rittenberg medium for Aquaspirillum genus
Ref.: 33759	Culture medium growth	yes
Ref.: 33759	Culture medium composition	Distilled water make up to (1000.000 ml);Agar (13.000 g);Yeast extract (3.000 g);Peptone (5.000 g);Beef extract (3.000 g)

	Temperatures									
Ref.: 377		<table border="1"> <thead> <tr> <th>Kind of temperature</th> <th>Temperature</th> </tr> </thead> <tbody> <tr> <td>growth</td> <td>28 °C</td> </tr> <tr> <td>growth</td> <td>25 °C</td> </tr> <tr> <td>growth</td> <td>25-30 °C</td> </tr> </tbody> </table>	Kind of temperature	Temperature	growth	28 °C	growth	25 °C	growth	25-30 °C
Kind of temperature	Temperature									
growth	28 °C									
growth	25 °C									
growth	25-30 °C									
Ref.: 33759										
Ref.: 45831										

Ref.: 377	Temperature range	mesophilic
Ref.: 33759	Temperature range	mesophilic
Ref.: 45831	Temperature range	mesophilic



Isolation, sampling and environmental information

Ref.: 377 **Sample type/isolated from** eutrophic lake water

Ref.: 377 **Country** Switzerland

Ref.: 377 **Continent** Europe

Ref.: 45831 **Sample type/isolated from** Eutrophic lake water

Ref.: 45831 **Country** Switzerland

Ref.: 45831 **Continent** Europe

Isolation sources categories

Cat1	Cat2	Cat3
#Environmental	#Aquatic	#Lake (large)

Application and interaction

Ref.: 377 **Biosafety level** 1 Risk group (German classification)

Molecular biology

Ref.: 377 **GC-content** 61.7 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Herbaspirillum autotrophicum gene for 16S rRNA, partial sequence, strain: NBRC 15327	AB680836	1458	180195
Ref.: 20218	Marker Gene (GenBank Direct submission)	Herbaspirillum autotrophicum strain SA32 23S ribosomal RNA gene, partial sequence	DQ150562	2440	180195
Ref.: 377	DDBJ EMBL Direct submission		AB074524		

Strain availability

Ref.: 377 **Culture collection no.** DSM 732, ATCC 29984, CCUG 12808, LMG 4326, CIP 107295, IAM 14942, NBRC 15327

Ref.: 377 **Strain history** <- M. Aragno, SA 32

Associated Passport(s) in StrainInfo

[Ref.: 20218](#) 3667 - <http://www.straininfo.net/strains/3667>

[Ref.: 20218](#) 3665 - <http://www.straininfo.net/strains/3665>

References

[Ref.: 377](#) Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 732

[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.: 33759](#) None; Curators of the CIP; None

[Ref.: 45831](#) Culture Collection University of Gothenburg (CCUG); Curators of the CCUG; CCUG 12808

*** These References are textmined**

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