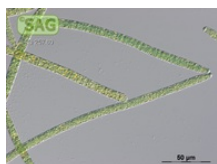
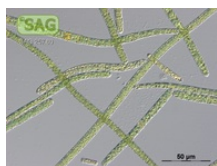


SAG 257.80 *Arthrospira platensis*



SAG Strain Number: 257.80

TAXONOMY

Genus: *Arthrospira*
 Species: *platensis*
 Taxonomic position: Cyanobacteria
 Authority: (Nordstedt) Gomont
 Variety:
 Formerly called: *Spirulina platensis* (Nordstedt) Geitler
 Authentic: no
 Division: Cyanobacteria
 Class: Cyanophyceae

ORIGIN

General habitat: freshwater
 Climatic zone:
 Continent: America
 Country: Peru
 Locality: Dpto. Ica, Laguna Huacachina
 Lat. / Long. (Precision): -14.087349 / -75.764047 (200m) [View on Google Maps](#)
 Year: 1977
 Isolated by: E. Hegewald
 Strain number by isolator: Heg 1977-229
 Deposition by: E. Hegewald
 Deposition date: 12.1980

CULTURE INFORMATION

Culture medium: [Spirul](#)
 Axenic: bacterial or other types of contamination
 Strain relatives:
 Agitation resistance: not detected
 Special properties: NO known Nagoya Protocol restrictions for this strain; filaments no longer spiral

PUBLICATIONS

Publication: [Nowicka-Krawczyk P. et al. \(2019\) Detailed characterization of the *Arthrospira* type species separating commercially grown taxa into the new genus *Limnospira* \(Cyanobacteria\). *Sci. Rep.* 9:694](#)
 Publication: [Wang, Z.P. et al. \(2005\) Morphological reversion of *Spirulina* \(*Arthrospira*\) *platensis* \(Cyanophyta\): from linear to helical. *J. Phycol.* 41 \(3\):622-628](#)
 Publication: [Scheldeman, P. et al. \(1999\) *Arthrospira* \('*Spirulina*'\) strains from four continents are resolved into only two clusters, based on amplified ribosomal DNA restriction analysis of the internally transcribed spacer. *FEMS Microbiology Letters* 172 \(2\):213-222](#)
 Publication: [Nelissen, B. et al. \(1994\) Phylogenetic relationships among filamentous helical cyanobacteria investigated on the basis of 16S ribosomal RNA gene sequence analysis. *Systematic and Applied Microbiology* 17:206-211](#)
 Publication: Guglielmi, G. et al. (1993) Main properties that justify the different taxonomic position of *Spirulina* spp. and *Arthrospira* spp. among cyanobacteria. *Bull Inst Oceanogr Monaco* 12:13-23

SEQUENCE INFORMATION

Sequence Accession: [MT792741](#) *Limnospira fusiformis* SAG 257.80 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chaperonin-like protein (rbcX) gene, complete cds; and ribulose-1,5-bisphosphate carboxylase/oxygenase small subunit (rbcS) gene, (803 bp)
 Sequence Accession: [MT767415](#) *Limnospira fusiformis* SAG 257.80 DNA-directed RNA polymerase subunit gamma (rpoC1) gene, partial cds. (883 bp)
 Sequence Accession: [MT764791](#) *Limnospira fusiformis* SAG 257.80 16S ribosomal RNA gene and 16S-23S ribosomal RNA intergenic spacer, partial sequence. (1502 bp)
 Sequence Accession: [MF509148](#) *Arthrospira platensis* CCALA 029 c-phycocyanin subunit AH intergenic spacer, partial sequence. (184 bp)
 Sequence Accession: [MF509097](#) *Arthrospira platensis* CCALA 029 gas vesicle structural protein (gvpA3) gene, partial cds. (216 bp)

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CRYO

Cryopreservation: not detected

TEACHING

Recommended for teaching: no

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