



Strain identifier

BacDive ID: 11892 **DOI:** 10.13145/bacdive11892.20190402.4
Type strain: yes
Culture col. no.: DSM 21884, CIP 105884, JCM 21566, LMG 11892, NBRC 102498, ORS 1032

Sections

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Name and taxonomic classification

Ref.: 16018	Domain	Bacteria
Ref.: 16018	Phylum	Proteobacteria
Ref.: 16018	Class	Alphaproteobacteria
Ref.: 16018	Order	Rhizobiales
Ref.: 16018	Family	Phyllobacteriaceae
Ref.: 16018	Genus	Mesorhizobium
Ref.: 16018	Species	Mesorhizobium plurifarum
Ref.: 16018	Full Scientific Name	Mesorhizobium plurifarum de Lajudie et al. 1998
Ref.: 16018	Designation:	None
Ref.: 16018	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Proteobacteria
Ref.: 20215	Class	Alphaproteobacteria
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 56:1
Ref.: 20215	Family	Phyllobacteriaceae
Ref.: 20215	Genus	Mesorhizobium
Ref.: 20215	Taxonomical status	gen. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 47:895*

Ref.: 20215	Species	Mesorhizobium plurifarum
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 48:369*
Ref.: 20215	Full Scientific Name	Mesorhizobium plurifarum de Lajudie et al. 1998

Culture and growth conditions

Ref.: 16018	Culture medium	YMA-MEDIUM (DSMZ Medium 1031), 30°C
Ref.: 16018	Culture medium growth	yes
Ref.: 16018	Culture medium link	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium1031.pdf

Ref.: 39379	Culture medium	MEDIUM 304 - for Allorhizobium undicola
Ref.: 39379	Culture medium growth	yes
Ref.: 39379	Culture medium composition	Distilled water make up to (987.000 ml);Sodium chloride (0.050 g);Agar (20.000 g);Yeast extract (1.000 g);Potassium di-hydrogen phosphate (0.500 g);Sodium glutamate (0.500 g);Mannitol (10.000 g);Solution A - M0556 (10.000 ml);Solution B - M0557 (1.000 ml)

	Temperatures	
Ref.: 16018		
Ref.: 39379		

Kind of temperature	Temperature
growth	30 °C
growth	30 °C

Ref.: 16018	Temperature range	mesophilic
Ref.: 39379	Temperature range	mesophilic

Isolation, sampling and environmental information

Ref.: 16018	Sample type/isolated from	Acacia senegal
Ref.: 16018	Host species	Acacia senegal
Ref.: 16018	Country	Senegal
Ref.: 16018	Continent	Africa

Isolation sources categories

Cat1	Cat2	Cat3
#Host	#Plants	#Tree

Application and interaction

Ref.: 16018	Biosafety level	1 Risk group (German classification)
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Molecular biology

 Ref.: 16018 **GC-content** 64.4 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID	
Ref.: 16018	EMBL Direct submission	Mesorhizobium plurifarum 16S rRNA gene, strain LMG 11892	Y14158	1437	69974	
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Mesorhizobium plurifarum gene for 16S rRNA, partial sequence, strain: NBRC 102498	AB681835	1410	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain LMG 11892 16S ribosomal RNA gene, partial sequence; internal transcribed spacer, complete sequence; and 23S ribosomal RNA, partial sequence	AF345263	962	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium sp. LMG 11892 nitrogenase iron protein (nifH) gene, partial cds	AF484654	445	190033	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain ORS 1032 ATP synthase beta subunit (atpD) gene, partial cds	AY785350	414	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum isolate ORS 1032 dinitrogenase reductase (nifH) gene, partial cds	DQ450931	562	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain ORS 1032 glutamine synthetase I (glnA) gene, partial cds	DQ659490	942	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain LMG 11892 DNA-directed RNA polymerase beta chain (rpoB) gene, partial cds	EF027938	672	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain LMG 11892 DNA gyrase subunit A (gyrA) gene, partial cds	EF028006	528	69974	*



Mesorhizobium plurifarum

Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain ORS 1032 DnaJ (dnaJ) gene, partial cds	EF504300	703	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain LMG 11892 glutamine synthetase II (glnII) gene, partial cds	EU249386	612	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain LMG 11892 nitrogenase iron protein (nifH) gene, partial cds	EU267717	725	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain LMG 11892 RNA polymerase beta subunit (rpoB) gene, partial cds	FJ393278	1398	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain ORS 1032 nodulation protein A (nodA) gene, partial cds	FJ745275	576	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain ORS 1032 nodulation protein C (nodC) gene, partial cds	FJ745283	904	69974	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Mesorhizobium plurifarum partial dnaK gene for chaperone protein dnaK	FM164385	695	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain LMG 11892 NodD (nodD) gene, partial cds	GQ167276	743	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum strain LMG 11892 NifH (nifH) gene, partial cds; NifD (nifD) gene, complete cds; and NifK (nifK) gene, partial cds	GQ167297	3523	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum 1-aminocyclopropane-1-carboxylate deaminase gene, partial cds	JQ013385	530	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum hypothetical protein (SMc00019) gene, partial cds	JX064223	325	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum TruA (truA) gene, partial cds	JX064295	329	69974	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Mesorhizobium plurifarum ThrA (thrA) gene, partial cds	JX064367	702	69974	*

Strain availability

Ref.: 16018 **Culture collection no.** DSM 21884, CIP 105884, JCM 21566, LMG 11892, NBRC 102498, ORS 1032

Ref.: 16018 **Strain history** <- CIP <- LMG <- P. De Lajudie, ORSTOM, Dakar, Senegal (*Rhizobium* sp.) <- M. Neyra

Associated Passport(s) in StrainInfo

Ref.: 20218 44513 - <http://www.straininfo.net/strains/44513>

Ref.: 20218 719245 - <http://www.straininfo.net/strains/719245>

Ref.: 20218 44512 - <http://www.straininfo.net/strains/44512>

Ref.: 20218 715872 - <http://www.straininfo.net/strains/715872>

Ref.: 20218 44515 - <http://www.straininfo.net/strains/44515>

References

Ref.: 16018 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 21884

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.: 39379 None; Curators of the CIP; None

*** These References are textmined**

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