



Strain identifier

BacDive ID:	6522	DOI:	10.13145/bacdive6522.20191129.4.1
Type strain:	yes	Designation:	71
Culture col. no.:	DSM 20505, ATCC 49974, JCM 1186, NCDO 2590, NCIB 11720, CCUG 39466, NCIMB 11720, KCTC 3803		

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Name and taxonomic classification

Ref.: 8854	Domain	Bacteria
Ref.: 8854	Phylum	Firmicutes
Ref.: 8854	Class	Bacilli
Ref.: 8854	Order	Lactobacillales
Ref.: 8854	Family	Lactobacillaceae
Ref.: 8854	Genus	Lactobacillus
Ref.: 8854	Species	Lactobacillus sharpeae
Ref.: 8854	Full Scientific Name	Lactobacillus sharpeae Weiss et al. 1982
Ref.: 8854	Designation:	71
Ref.: 8854	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Firmicutes
Ref.: 20215	Class	Bacilli
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 38:220
Ref.: 20215	Family	Lactobacillaceae
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:225
Ref.: 20215	Genus	Lactobacillus

Ref.: 20215	Taxonomical status	genus (AL)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:225
Ref.: 20215	Species	Lactobacillus sharpeae
Ref.: 20215	Taxonomical status	sp. nov. (VL)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 32:266
Ref.: 20215	Full Scientific Name	Lactobacillus sharpeae Weiss et al. 1982

Morphology and physiology

Ref.: 8854	Murein short key	A31
Ref.: 8854	Murein types	A1gamma m-Dpm-direct
Ref.: 8854	Oxygen tolerance	anaerobe
Ref.: 8854	Oxygen tolerance	microaerophile
Ref.: 54805	Oxygen tolerance	anaerobe

Culture and growth conditions

Ref.: 8854	Culture medium	MRS MEDIUM WITH CYSTEINE (DSMZ Medium 232), 30°C, microaerophilic - anaerobic
Ref.: 8854	Culture medium growth	yes
Ref.: 8854	Culture medium link	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium232.pdf
Ref.: 38090	Culture medium	MEDIUM 41- for Lactobacillus, Leuconostoc, Weissella, Pediococcus, Sporolactobacillus inulinus
Ref.: 38090	Culture medium growth	yes
Ref.: 38090	Culture medium composition	Distilled water make up to (1000.000 ml);Man Rogosa Sharp broth (55.000 g)

Temperatures

Ref.: 8854
Ref.: 38090
Ref.: 54805

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

Ref.: 8854	Temperature range	mesophilic
Ref.: 38090	Temperature range	mesophilic
Ref.: 54805	Temperature range	mesophilic

Isolation, sampling and environmental information

Ref.: 8854 **Sample type/isolated from** municipal sewage

Ref.: 54805 **Sample type/isolated from** Sewage,municipal

Ref.: 54805 **Geographic location (country and/or sea, region)** München

Ref.: 54805 **Country** Germany

Ref.: 54805 **Continent** Europe

Isolation sources categories

Cat1	Cat2	Cat3
#Engineered	#Waste	#Wastewater

Application and interaction

Ref.: 8854 **Biosafety level** 1 Risk group (German classification)

Molecular biology

Ref.: 8854 **GC-content** 52.7 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID	
Ref.: 8854	whole genome shotgun sequence, Whole Genome Shotgun (WGS) Sequence INSDC	Lactobacillus sharpeae JCM 1186 = DSM 20505 strain JCM 1186, whole genome shotgun sequencing project	BBAC00000000	64	1291052	
Ref.: 20218	Marker Gene (GenBank Direct submission)	Lactobacillus sharpeae 16S-23S rRNA intergenic spacer region	AF074861	221	1291052	*
Ref.: 20218	INSDC Sequence	Lactobacillus sharpeae strain DSM 20505 16S ribosomal RNA gene, partial sequence	M58831	1522	1626	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Lactobacillus sharpeae gene for 16S rRNA, partial sequence, strain: JCM 1186	AB289301	652	1291052	*

Ref.: 20218	Marker Gene (EMBL Direct submission)	Lactobacillus sharpeae partial recA gene for recombinase A, strain LMG 9214T	AJ621675	600	1291052	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Lactobacillus sharpeae pheS gene for phenylalanyl-tRNA synthase alpha subunit, type strain LMG 9214T	AM087765	392	1291052	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Lactobacillus sharpeae rpoA gene for RNA polymerase alpha subunit, type strain LMG 9214	AM263518	493	1291052	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Lactobacillus sharpeae partial mRNA for putative elongation factor Tu (tuf gene), strain NCIB 11720	AJ418915	761	1291052	*

Strain availability

Ref.: 8854 **Culture collection no.** DSM 20505, ATCC 49974, JCM 1186, NCDO 2590, NCIB 11720, CCUG 39466, NCIMB 11720, KCTC 3803

Ref.: 8854 **Strain history** <- N. Weiss, 71

Associated Passport(s) in StrainInfo

Ref.: 20218 14146 - <http://www.straininfo.net/strains/14146>
 Ref.: 20218 115123 - <http://www.straininfo.net/strains/115123>
 Ref.: 20218 14147 - <http://www.straininfo.net/strains/14147>
 Ref.: 20218 115125 - <http://www.straininfo.net/strains/115125>
 Ref.: 20218 152274 - <http://www.straininfo.net/strains/152274>

References

Ref.: 8854 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 20505

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.: 38090 None; Curators of the CIP; None

Ref.: 54805

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