



**Strain identifier**

**BacDive ID:** 6764      **DOI:** 10.13145/bacdive6764.20191129.4.1  
**Type strain:** yes      **Designation:** 1347 95/83-1347  
**Culture col. no.:** DSM 21907, ATCC 49508, CCUG 44923, CIP 105114, NCTC 12377

**Sections**

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**Name and taxonomic classification**

<a href="#">Ref.: 15902</a>	<b>Domain</b>	Bacteria
<a href="#">Ref.: 15902</a>	<b>Phylum</b>	Proteobacteria
<a href="#">Ref.: 15902</a>	<b>Class</b>	Gammaproteobacteria
<a href="#">Ref.: 15902</a>	<b>Order</b>	Legionellales
<a href="#">Ref.: 15902</a>	<b>Family</b>	Legionellaceae
<a href="#">Ref.: 15902</a>	<b>Genus</b>	Legionella
<a href="#">Ref.: 15902</a>	<b>Species</b>	Legionella worsleiensis
<a href="#">Ref.: 15902</a>	<b>Full Scientific Name</b>	Legionella worsleiensis Dennis et al. 1993
<a href="#">Ref.: 15902</a>	<b>Designation:</b>	1347 95/83-1347
<a href="#">Ref.: 15902</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>	Gammaproteobacteria
<a href="#">Ref.: 20215</a>	Literature reference	Int. J. Syst. Evol. Microbiol. 55:2235
<a href="#">Ref.: 20215</a>	<b>Family</b>	Legionellaceae
<a href="#">Ref.: 20215</a>	Literature reference	Int. J. Syst. Bacteriol. 30:225
<a href="#">Ref.: 20215</a>	<b>Genus</b>	Legionella



Ref.: 20215	Taxonomical status	genus (AL)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:225
Ref.: 20215	<b>Species</b>	Legionella worsleiensis
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 43:329*
Ref.: 20215	<b>Full Scientific Name</b>	Legionella worsleiensis Dennis et al. 1993

**Morphology and physiology**

Ref.: 15902	<b>Oxygen tolerance</b>	microaerophile
Ref.: 56545	<b>Oxygen tolerance</b>	microaerophile

**Culture and growth conditions**

Ref.: 15902	<b>Culture medium</b>	BCYE-AGAR (DSMZ Medium 585), 37°C, microaerophilic; needs high humidity
Ref.: 15902	<b>Culture medium growth</b>	yes
Ref.: 15902	<b>Culture medium link</b>	<a href="https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium585.pdf">https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium585.pdf</a>

Ref.: 35175	<b>Culture medium</b>	MEDIUM 23 - for Afipia and Legionella
Ref.: 35175	<b>Culture medium growth</b>	yes
Ref.: 35175	<b>Culture medium composition</b>	Distilled water make up to (1000.000 ml);Legionella agar (37.000 g);Legionella - enrichment mixture (10.000 ml)

	<b>Temperatures</b>	
Ref.: 15902		
Ref.: 35175		
Ref.: 56545		

Kind of temperature	Temperature
growth	37 °C
growth	37 °C
growth	37 °C

Ref.: 15902	<b>Temperature range</b>	mesophilic
Ref.: 35175	<b>Temperature range</b>	mesophilic
Ref.: 56545	<b>Temperature range</b>	mesophilic

**Isolation, sampling and environmental information**

Ref.: 15902	<b>Sample type/isolated from</b>	cooling tower return flow
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Ref.: 15902	<b>Geographic location (country and/or sea, region)</b>	Worsley
Ref.: 15902	<b>Country</b>	United Kingdom
Ref.: 15902	<b>Continent</b>	Europe
Ref.: 56545	<b>Sample type/isolated from</b>	Cooling tower return flow
Ref.: 56545	<b>Geographic location (country and/or sea, region)</b>	Worsley
Ref.: 56545	<b>Country</b>	United Kingdom
Ref.: 56545	<b>Continent</b>	Europe

<b>Isolation sources categories</b>	<b>Cat1</b>	<b>Cat2</b>	<b>Cat3</b>
	#Engineered	#Industrial	#Cooling tower

**Application and interaction**

Ref.: 15902	<b>Biosafety level</b>	1 Risk group (German classification)
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**Molecular biology**

Ref.: 15902	<b>GC-content</b>	41 mol%
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	<b>Sequence database</b>	<b>Sequence accession description</b>	<b>Sequence accession number</b>	<b>Sequence length(bp)</b>	<b>Associated NCBI tax ID</b>	
Ref.: 20218	Marker Gene (GenBank Direct submission)	Legionella worsleiensis ATCC 49508 RNA polymerase B subunit (rpoB) gene, partial cds	AF367758	300	45076	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Legionella worsleiensis partial rnpB gene for ribonuclease P RNA, type strain CCUG 44924T	AJ781430	344	45076	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Legionella worsleiensis strain ATCC 49508 ProA (proA) gene, partial cds	JN086195	526	45076	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Legionella worsleiensis macrophage infectivity potentiator (mip) gene, partial cds	U60164	631	45076	*



Ref.: 15902	mip gene, Marker Gene (GenBank Direct submission)	Legionella worsleiensis macrophage infectivity potentiator (mip) gene, complete cds	U92226	1202	45076
Ref.: 15902	16S rRNA gene, Marker Gene (EMBL Direct submission)	L.worsleiensis gene for ribosomal RNA, small subunit	Z49739	1415	45076

**Strain availability**

Ref.: 15902      **Culture collection no.**      DSM 21907, ATCC 49508, CCUG 44923, CIP 105114, NCTC 12377

Ref.: 15902      **Strain history**      <- CCUG <- CIP <- NCTC <- T. Harrison, Lab. Microbiol. Reagents (LMR), Central Public Health Lab., Colindale, London, UK <- P. J. Dennis, PHLS Salisbury, UK; 95/83-1347

**Associated Passport(s) in StrainInfo**

- Ref.: 20218      114425 - <http://www.straininfo.net/strains/114425>
- Ref.: 20218      330018 - <http://www.straininfo.net/strains/330018>
- Ref.: 20218      330021 - <http://www.straininfo.net/strains/330021>
- Ref.: 20218      152388 - <http://www.straininfo.net/strains/152388>

**References**

- Ref.: 15902      Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 21907
- 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.: 35175      None; Curators of the CIP; None
- Ref.: 56545      Culture Collection University of Gothenburg (CCUG); Curators of the CCUG; CCUG 44923

\* These References are textmined

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