

Strain identifier

BacDive ID: 12801 **DOI:** 10.13145/bacdive12801.20170425.1
Type strain: no **Designation:** PAO1
Culture col. no.: DSM 22644, ATCC 15692, CIP 104116, DSM 19880, JCM 14847, LMG 12228

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Name and taxonomic classification

Ref.: 16444	Domain	Bacteria
Ref.: 16444	Phylum	Proteobacteria
Ref.: 16444	Class	Gammaproteobacteria
Ref.: 16444	Order	Pseudomonadales
Ref.: 16444	Family	Pseudomonadaceae
Ref.: 16444	Genus	Pseudomonas
Ref.: 16444	Species	Pseudomonas aeruginosa
Ref.: 16444	Full Scientific Name	Pseudomonas aeruginosa (Schroeter 1872) Migula 1900
Ref.: 16444	Designation:	PAO1
Ref.: 16444	Type strain:	no

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Proteobacteria
Ref.: 20215	Class	Gammaproteobacteria
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 55:2236
Ref.: 20215	Family	Pseudomonadaceae
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:237
Ref.: 20215	Genus	Pseudomonas

Ref.: 20215	Taxonomical status	genus (AL)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:349 AL
Ref.: 20215	Species	<i>Pseudomonas aeruginosa</i>
Ref.: 20215	Taxonomical status	species (AL)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:349 AL
Ref.: 20215	Full Scientific Name	<i>Pseudomonas aeruginosa</i> (Schroeter 1872) Migula 1900

Morphology and physiology

Ref.: 16444	Name of produced compound	pyochelin
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Ref.: 16444 **API 20NE**

API ID	231	1627
NO3	+	+
TRP	-	-
GLU_Ferm	-	-
ADH (Arg)	+	+
URE	+	+
ESC	-	+
GEL	+	+
PNPG	-	-
GLU_Assim	+	+
ARA	-	-
MNE	-	-
MAN	+	+
NAG	+	+
MAL	-	-
GNT	+	+
CAP	+	+
ADI	+	+
MLT	+	+
CIT	+	+
PAC	-	-
OX	+	+

Culture and growth conditions

Ref.: 16444	Culture medium	TRYPTICASE SOY BROTH AGAR (DSMZ Medium 535), 30°C
Ref.: 16444	Culture medium growth	yes
Ref.: 16444	Culture medium link	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium535.pdf
Ref.: 16444	Culture medium composition	Trypticase Soy Broth (BBL 11768, Oxoid CM129 or Merck 5459) 30.0 g Agar 15.0 g Distilled water 1000.0 ml pH 7.3 Autoclave at 121°C for 15 min.

Ref.: 16444	Temperatures	Kind of temperature	Temperature
		optimum	30 °C

Ref.: 16444 **Temperature range** mesophilic

Isolation, sampling and environmental information

Ref.: 16444	Sample type/isolated from	infected wound
Ref.: 16444	Country	Australia
Ref.: 16444	Continent	Australia and Oceania

Application and interaction

Ref.: 16444	Pathogenicity (human)	yes
Ref.: 16444	Pathogenicity (animal)	yes
Ref.: 16444	Biosafety level	2 Risk group (German classification)

Molecular biology

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 16444	GenBank Genome project data	<i>Pseudomonas aeruginosa</i> PAO1, complete genome	AE004091	6264404	208964
Ref.: 20218	Marker Gene (DDBJ Direct submission)	<i>Pseudomonas aeruginosa</i> gene for 16S rRNA, partial sequence, strain: JCM 14847	AB626118	1458	287

Strain availability

Ref.: 16444 **Culture collection no.** DSM 22644, ATCC 15692, CIP 104116, DSM 19880, JCM 14847, LMG 12228

Ref.: 16444 **Strain history** <- LMG <- ATCC <- B. Holloway; PAO1 <- P. Rountree

Associated Passport(s) in StrainInfo

Ref.: 20218 900531 - <http://www.straininfo.net/strains/900531>

Ref.: 20218 98553 - <http://www.straininfo.net/strains/98553>

Ref.: 20218 802901 - <http://www.straininfo.net/strains/802901>

Ref.: 20218 53032 - <http://www.straininfo.net/strains/53032>

References

Ref.: 16444 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH;
Curators of the DSMZ; DSM 22644

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)

*** These References are textmined**

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