

Strain identifier

BacDive ID:	3869	DOI:	10.13145/bacdive3869.20171208.2.1
Type strain:	yes	Designation:	AA-63
Culture col. no.:	DSM 12784, CIP 109039, NRRL B-41042		

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Name and taxonomic classification

Ref.: 4819	Domain	Bacteria
Ref.: 4819	Phylum	Deinococcus-Thermus
Ref.: 4819	Class	Deinococci
Ref.: 4819	Order	Deinococcales
Ref.: 4819	Family	Deinococcaceae
Ref.: 4819	Genus	Deinococcus
Ref.: 4819	Species	Deinococcus marmoris
Ref.: 4819	Full Scientific Name	Deinococcus marmoris Hirsch et al. 2006
Ref.: 4819	Designation:	AA-63
Ref.: 4819	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Deinococcus-Thermus
Ref.: 20215	Class	Deinococci
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 52:685
Ref.: 20215	Family	Deinococcaceae
Ref.: 20215	Genus	Deinococcus
Ref.: 20215	Taxonomical status	gen. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 31:354*

Ref.: 20215	Species	Deinococcus marmoris
Ref.: 20215	Taxonomical status	sp. nov. (VL)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 56:925
Ref.: 20215	Full Scientific Name	Deinococcus marmoris Hirsch et al. 2006

Culture and growth conditions

Ref.: 4819	Culture medium	PYGV AGAR (DSMZ Medium 621), 15°C
Ref.: 4819	Culture medium growth	yes
Ref.: 4819	Culture medium link	https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium621.pdf
Ref.: 4819	Culture medium composition	Mineral salt sol. ("Hutner/Cohen-Bazire") 20.00 ml Peptone (Bacto) 0.25 g Yeast extract (Bacto) 0.25 g Agar (Bacto) 15.00 g Distilled water 965.00 mlSterilize 20 min./121°C. After cooling to 60°C add to the medium: Glucose sol. (2.5%, sterile-filtered) 10.00 ml Vitamin sol. (double conc.) 5.00 mlAdjust pH to 7.5 (the medium is only weakly buffered; one needs approx. 10 drops/l medium of 6 N KOH).Mineral salt solution: Nitrilotriacetic acid (NTA) 10.00 g MgSO4 x 7 H2O 29.70 g CaCl2 x 2 H2O 3.34 g Na2MoO4 x 2 H2O 12.67 mg FeSO4 x 7 H2O 99.00 mg Metall salt sol. "44" (see medium 590) 50.00 ml Distilled water 900.00 mlDissolve NTA first by neutralizing with KOH, then add other salts. Adjust pH to 7.2 with KOH or H2SO4. Adjust volume to 1000.0 ml with distilled water.Vitamin solution (double conc.): Biotin 4.00 mg Folic acid 4.00 mg Pyridoxine-HCl 20.00 mg Riboflavine 10.00 mg Thiamine-HCl x 2 H2O 10.00 mg Nicotinamide 10.00 mg D-Ca-pantothenate 10.00 mg Vitamin B12 0.20 mg p-Aminobenzoic acid 10.00 mg Distilled water 1000.00 mlStore in the dark and cold (5°C).

Ref.: 4819	Temperatures	Kind of temperature	Temperature
		optimum	15 °C
Ref.: 4819	Temperature range	psychrophilic	

Isolation, sampling and environmental information

Ref.: 4819	Sample type/isolated from	marble rock
Ref.: 4819	Geographic location (country and/or sea, region)	McMurdo Dry Valleys
Ref.: 4819	Continent	Australia and Oceania

Application and interaction

Ref.: 4819 **Biosafety level** 1 Risk group (German classification)

Molecular biology

Ref.: 4819 **GC-content** 62.8 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 4819	INSDC (WGS)	Deinococcus marmoris DSM 12784, whole genome shotgun sequencing project	JNIV00000000	253	1121381
Ref.: 4819	EMBL Direct submission		AJ585986		

Strain availability

Ref.: 4819 **Culture collection no.** DSM 12784, CIP 109039, NRRL B-41042

Ref.: 4819 **Strain history** <- P. Hirsch; AA-63

Associated Passport(s) in StrainInfo

Ref.: 20218 534209 - <http://www.straininfo.net/strains/534209>

Ref.: 20218 690986 - <http://www.straininfo.net/strains/690986>

Ref.: 20218 534210 - <http://www.straininfo.net/strains/534210>

References

Ref.: 4819 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 12784

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)

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