



Strain identifier

BacDive ID: 2868 **DOI:** 10.13145/bacdive2868.20191129.4.1
Type strain: yes **Designation:** HY-37-4
Culture col. no.: DSM 15930, IMSNU 40011, KCTC 5027

Sections

- [Name and taxonomic classification](#)
- [Morphology and physiology](#)
- [Culture and growth conditions](#)
- [Isolation, sampling and environmental information](#)
- [Application and interaction](#)
- [Molecular biology](#)
- [Strain availability](#)
- [References](#)

Name and taxonomic classification

Ref.: 6191	Domain	Bacteria
Ref.: 6191	Phylum	Firmicutes
Ref.: 6191	Class	Clostridia
Ref.: 6191	Order	Clostridiales
Ref.: 6191	Family	Clostridiaceae
Ref.: 6191	Genus	Anaerosporobacter
Ref.: 6191	Species	Anaerosporobacter mobilis
Ref.: 6191	Full Scientific Name	Anaerosporobacter mobilis Jeong et al. 2007
Ref.: 6191	Designation:	HY-37-4
Ref.: 6191	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Firmicutes
Ref.: 20215	Class	Clostridia
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 60:469
Ref.: 20215	Family	Clostridiaceae
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:225
Ref.: 20215	Genus	Anaerosporobacter

Ref.: 20215	Taxonomical status	gen. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 57:1784*
Ref.: 20215	Species	Anaerosporobacter mobilis
Ref.: 20215	Taxonomical status	sp. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 57:1784*
Ref.: 20215	Full Scientific Name	Anaerosporobacter mobilis Jeong et al. 2007

Morphology and physiology

Ref.: 31315	Gram stain	positive
Ref.: 31315	Cell length	2.3-5.5 µm
Ref.: 31315	Cell width	0.5-0.5 µm
Ref.: 31315	Cell shape	rod-shaped
Ref.: 31315	Motility	yes

Halophily

Ref.: 31315
Ref.: 31315

Salt	Tested relation	Salt conc.
NaCl	growth	0-3 %
NaCl	optimum	0.5 %

Metabolite utilization

Ref.: 31315
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Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
22599	Arabinose	+	carbon source
17057	Cellobiose	+	carbon source
4853	Esculin	+	hydrolysis
28757	Fructose	+	carbon source
28260	Galactose	+	carbon source
17234	Glucose	+	carbon source
17716	Lactose	+	carbon source
17306	Maltose	+	carbon source
37684	Mannose	+	carbon source
16634	Raffinose	+	carbon source
17814	Salicin	+	carbon source
17992	Sucrose	+	carbon source
18222	Xylose	+	carbon source

Ref.: 6191	Oxygen tolerance	anaerobe
Ref.: 31315	Oxygen tolerance	anaerobe

Ref.: 31315 **Ability of spore formation** yes

Culture and growth conditions

Ref.: 6191 **Culture medium** PY + X MEDIUM (N2/CO2) (DSMZ Medium 104c), 30°C, anaerobic

Ref.: 6191 **Culture medium growth** yes

Ref.: 6191 **Culture medium link** https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium104c.pdf

Ref.: 6191	Temperatures	Kind of temperature	Temperature
		growth	30 °C
		growth	15-40 °C
		optimum	30 °C

Ref.: 6191 **Temperature range** mesophilic

Ref.: 31315 **Temperature range** mesophilic

Ref.: 31315	pH	Kind of pH	pH
		growth	5.5-9.0
		optimum	6.75

Isolation, sampling and environmental information

Ref.: 6191 **Sample type/isolated from** forest soil

Ref.: 6191 **Geographic location (country and/or sea, region)** Jeju

Ref.: 6191 **Country** Republic of Korea

Ref.: 6191 **Continent** Asia

Isolation sources categories	Cat1	Cat2	Cat3
	#Environmental	#Terrestrial	#Forest
	#Environmental	#Terrestrial	#Soil

Application and interaction

Ref.: 6191 **Biosafety level** 1 Risk group (German classification)

Molecular biology

Ref.: 6191 **GC-content** 41 mol%

Ref.: 31315 **GC-content** 41 mol%

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 6191	16S rRNA gene, Marker Gene (GenBank Direct submission)	Anaerosporbacter mobilis strain IMSNU 40011 16S ribosomal RNA gene, partial sequence	AY534872	1442	264463

Strain availability

Ref.: 6191 **Culture collection no.** DSM 15930, IMSNU 40011, KCTC 5027

Ref.: 6191 **Strain history** <- J. Chun, Seoul Natl. Univ., Republic of Korea; HY-37-4 <- J. Chun {2003}

Associated Passport(s) in StrainInfo

Ref.: 20218 557151 - <http://www.straininfo.net/strains/557151>

Ref.: 20218 377018 - <http://www.straininfo.net/strains/377018>

Ref.: 20218 557152 - <http://www.straininfo.net/strains/557152>

References

Ref.: 6191 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 15930

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.: 31315 Barberan A, Caceres Velazquez H, Jones S, Fierer N. Hiding in Plain Sight: Mining Bacterial Species Records for Phenotypic Trait Information. mSphere 2: None-None 2017 (10.1128/mSphere.00237-17, None) - **originally annotated from #27630**

Ref.: 27630 IJSEM 1784 2007 (10.1099/ijms.0.63283-0)

*** These References are textmined**

[back to top](#)