



Strain identifier

BacDive ID: 23970 **DOI:** 10.13145/bacdive23970.20190402.4
Type strain: yes **Designation:** SF87
Culture col. no.: DSM 25463, ATCC BAA 2406, LMG 29522

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Name and taxonomic classification

Ref.: 20910	Domain	Bacteria
Ref.: 20910	Phylum	Proteobacteria
Ref.: 20910	Class	Gammaproteobacteria
Ref.: 20910	Order	Enterobacteriales, not validated
Ref.: 20910	Family	Morganellaceae
Ref.: 20910	Genus	Xenorhabdus
Ref.: 20910	Species	Xenorhabdus khoisanae
Ref.: 20910	Full Scientific Name	Xenorhabdus khoisanae Ferreira et al. 2013
Ref.: 20910	Designation:	SF87
Ref.: 20910	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 55:2236
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:236
Ref.: 20215	Genus	Xenorhabdus
Ref.: 20215	Taxonomical status	genus (AL)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:225
Ref.: 20215	Species	Xenorhabdus khoisanae
Ref.: 20215	Taxonomical status	sp. nov. (VP)

Ref.: 20215 Literature reference Int. J. Syst. Evol. Microbiol. 63:3220*
 Ref.: 20215 **Full Scientific Name** Xenorhabdus khoisanae Ferreira et al. 2013

Morphology and physiology

Ref.: 30988 **Gram stain** negative
 Ref.: 30988 **Cell length** 2.5 µm
 Ref.: 30988 **Cell width** 0.45 µm
 Ref.: 30988 **Cell shape** rod-shaped

	Metabolite utilization	Chebi ID	Metabolite	Utilization activity	Kind of utilization tested
Ref.: 30988		24266	Gluconic acid	+	carbon source
Ref.: 30988		17234	Glucose	+	carbon source
Ref.: 30988		17306	Maltose	+	carbon source
Ref.: 30988		37684	Mannose	+	carbon source
Ref.: 30988		506227	N-Acetylglucosamine	+	carbon source

Ref.: 30988 **Oxygen tolerance** aerobe

Culture and growth conditions

Ref.: 20910 **Culture medium** REACTIVATION WITH LIQUID MEDIUM (DSMZ Medium 535b), 28°C
 Ref.: 20910 **Culture medium growth** yes
 Ref.: 20910 **Culture medium link** https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium535b.pdf

Ref.: 20910	Temperatures	Kind of temperature	Temperature
		growth	28 °C

Ref.: 20910 **Temperature range** mesophilic

Isolation, sampling and environmental information

Ref.: 20910 **Sample type/isolated from** nematode Steinernema khoisanae
 Ref.: 20910 **Host species** Steinernema khoisanae



Ref.: 20910 **Geographic location (country and/or sea, region)** Western Cape Province

Ref.: 20910 **Country** South Africa

Ref.: 20910 **Continent** Africa

Isolation sources categories

Cat1	Cat2	Cat3
#Host	#Invertebrates (Other)	#Nematoda

Application and interaction

Ref.: 20910 **Pathogenicity (animal)** yes

Ref.: 20910 **Biosafety level** 1 Risk group (German classification)

Molecular biology

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID
Ref.: 20910	GenBank Direct submission	Xenorhabdus khoisanae strain SF87 translation initiation factor (infB) gene, partial cds	JX623984	1781	880157
Ref.: 20910	DDBJ EMBL Direct submission		AB685736		
Ref.: 20910	DDBJ EMBL Direct submission		AB685735		
Ref.: 20910	DDBJ EMBL Direct submission		AB685733		
Ref.: 20910	DDBJ EMBL Direct submission		AB685734		
Ref.: 20910	GenBank Direct submission	Xenorhabdus khoisanae strain SF87 16S ribosomal RNA gene, partial sequence	HQ142625	1424	880157

Strain availability

Ref.: 20910 **Culture collection no.** DSM 25463, ATCC BAA 2406, LMG 29522

Ref.: 20910 **Strain history** <- C. A. Van Reenen, Dept. Microbiology, Stellenbosch Univ., South Africa; SF87 <- T. Ferreira, Department of Conservation Ecology and Entomology, University of Stellenbosch

Associated Passport(s) in StrainInfo

Ref.: 20218 890930 - <http://www.straininfo.net/strains/890930>

Ref.: 20218 890931 - <http://www.straininfo.net/strains/890931>

References

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.: 20910 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 25463

Ref.: 30988 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 #27318***

Ref.: 27318 IJSEM 3220 2013 (10.1099/ijms.0.049049-0)

*** These References are textmined**

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