



Strain identifier

BacDive ID:	15430	DOI:	10.13145/bacdive15430.20190402.4
Type strain:	yes	Designation:	48240
Culture col. no.:	DSM 40635, ATCC 11455, CBS 240.57, DSM 40636, DSM 41152, ETH 13473, IFO 15452, IMRU 3771, INA 0178, JCM 4922, KCC S-0922, NBRC 15452, NCIB 8593, NRRL B-1714		

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Name and taxonomic classification

Ref.: 9587	Domain	Bacteria
Ref.: 9587	Phylum	Actinobacteria
Ref.: 9587	Class	Actinobacteria
Ref.: 9587	Order	Actinomycetales
Ref.: 9587	Family	Streptomycetaceae
Ref.: 9587	Genus	Streptomyces
Ref.: 9587	Species	Streptomyces noursei
Ref.: 9587	Full Scientific Name	Streptomyces noursei Brown et al. 1953
Ref.: 9587	Designation:	48240
Ref.: 9587	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Domain	Bacteria
Ref.: 20215	Phylum	Actinobacteria
Ref.: 20215	Class	Actinobacteria
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 47:483*
Ref.: 20215	Family	Streptomycetaceae
Ref.: 20215	Genus	Streptomyces
Ref.: 20215	Taxonomical status	genus (AL)

Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:225
Ref.: 20215	Species	Streptomyces noursei
Ref.: 20215	Taxonomical status	species (AL)
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:225
Ref.: 20215	Full Scientific Name	Streptomyces noursei Brown et al. 1953 emend. Nouioui et al. 2018

Morphology and physiology

Ref.: 9587	Name of produced compound	nystatin
Ref.: 9587	Name of produced compound	fungicidin
Ref.: 9587	Name of produced compound	actidione

Ref.: 9587 **Multimedia content**



Ref.: 9587	Caption	Medium 65 28°C
Ref.: 9587	License/Copyright	(C) Leibniz-Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH
Ref.: 9587	Intellectual property rights	© Leibniz-Institut DSMZ

Culture and growth conditions

Ref.: 9587 **Culture medium** GYM STREPTOMYCES MEDIUM (DSMZ Medium 65), 28°C

Ref.: 9587 **Culture medium growth** yes

Ref.: 9587 **Culture medium link** https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium65.pdf

Ref.: 9587	Temperatures	Kind of temperature	Temperature
		growth	28 °C

Ref.: 9587 **Temperature range** mesophilic

Isolation, sampling and environmental information

Ref.: 9587 **Sample type/isolated from** soil

Ref.: 9587 **Geographic location (country and/or sea, region)** Fauquier Country

Ref.: 9587 **Country** USA

Ref.: 9587 **Continent** North America

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

Application and interaction

Ref.: 9587 **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.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative ABC transporter gene, partial cds	AF071512	402	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative streptomycin 6-kinase homolog gene, partial cds	AF071513	526	316284	*



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Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative glycosyltransferase gene, partial cds	AF071514	511	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative transposase gene, partial cds	AF071515	431	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative P450 hydroxylase gene, partial cds	AF071516	519	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative O-methyltransferase gene, partial cds	AF071517	522	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative SnoY homolog gene, partial cds	AF071518	513	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative TDP-glucose dehydratase (gdhA') gene, partial cds	AF071519	558	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative deoxyhexose reductase gene, partial cds	AF071520	555	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative TDP-glucose synthase and putative TDP-glucose dehydratase genes, partial cds	AF071521	1017	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative polyketide synthase type I gene, partial cds	AF071523	534	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative pleiotropic regulator gene, partial cds; SsmA (ssmA) and SsmB precursor (ssmB) genes, complete cds; and putative AMP binding protein gene, partial cds	AF118856	1795	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei ATCC 11455 nystatin biosynthetic gene cluster, complete sequence	AF263912	123580	316284	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Sequence 1 from Patent WO0159126	AX211705	65140	1971	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Sequence 2 from Patent WO0159126	AX211706	27541	1971	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Sequence 22 from Patent WO0159126	AX211726	21	1971	*



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Ref.: 20218	Marker Gene (EMBL Direct submission)	Sequence 29 from Patent WO0159126	AX211733	2700	1971	*
Ref.: 20218	Marker Gene (EMBL Direct submission)	Sequence 35 from Patent WO0159126	AX211739	125401	1971	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei putative tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase gene, partial cds; albonoursin biosynthetic gene cluster, complete sequence; and putative NADP-specific glutamate dehydrogenase gene, partial cds	AY129235	4523	316284	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei ATCC 11455 lantibiotic biosynthesis gene cluster, complete sequence	AY942707	13830	316284	*
Ref.: 20218	INSDC Sequence	Sequence 49 from Patent EP1616963	CS253560	717	1971	*
Ref.: 20218	INSDC Sequence	Sequence 50 from Patent EP1616963	CS253561	717	367931	*
Ref.: 20218	INSDC Sequence	Sequence 39 from Patent EP1627884	CS265519	717	1971	*
Ref.: 20218	INSDC Sequence	Sequence 40 from Patent EP1627884	CS265520	717	367931	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for 16S ribosomal RNA, partial sequence, strain: JCM 4922	D44419	121	1971	*
Ref.: 20218	Marker Gene (GenBank Direct submission)	Streptomyces noursei strain KCTC 1083 16S ribosomal RNA gene, partial sequence	AY999827	1424	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for 16S rRNA, partial sequence, strain: NBRC 15452	AB184678	1472	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for ketosynthase, partial cds, strain: NBRC 15452	AB269309	573	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for polyketide synthase, partial cds, strain: NBRC 15452, clone: nour15452ks-92	AB430897	1105	1971	*

Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for polyketide synthase, partial cds, strain: NBRC 15452, clone: nour15452ks-96	AB430898	1061	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for polyketide synthase, partial cds, strain: NBRC 15452, clone: nour15452ks-86	AB430899	1085	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for polyketide synthase, partial cds, strain: NBRC 15452, clone: nour15452m-159	AB430900	808	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for polyketide synthase, partial cds, strain: NBRC 15452, clone: nour15452m-158	AB430901	838	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for polyketide synthase, partial cds, strain: NBRC 15452, clone: nour15452m-N5	AB430902	834	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for polyketide synthase, partial cds, strain: NBRC 15452, clone: te15452-N12	AB432280	948	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for non-ribosomal peptide synthetase, partial cds, strain: NBRC 15452, clone: 1	AB432366	709	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for non-ribosomal peptide synthetase, partial cds, strain: NBRC 15452, clone: N3	AB432367	715	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for non-ribosomal peptide synthetase, partial cds, strain: NBRC 15452, clone: N2	AB432368	730	1971	*
Ref.: 20218	Marker Gene (DDBJ Direct submission)	Streptomyces noursei gene for non-ribosomal peptide synthetase, partial cds, strain: NBRC 15452, clone: 2	AB432369	715	1971	*

Strain availability



Ref.: 9587 **Culture collection no.** DSM 40635, ATCC 11455, CBS 240.57, DSM 40636, DSM 41152, ETH 13473, IFO 15452, IMRU 3771, INA 0178, JCM 4922, KCC S-0922, NBRC 15452, NCIB 8593, NRRL B-1714

Ref.: 9587 **Strain history** <- E.J. Backus, Lederle Labs., D 17 <- ATCC <- J.M. Coffey, 48240

Associated Passport(s) in StrainInfo

- Ref.: 20218 53984 - <http://www.straininfo.net/strains/53984>
- Ref.: 20218 53980 - <http://www.straininfo.net/strains/53980>
- Ref.: 20218 230925 - <http://www.straininfo.net/strains/230925>
- Ref.: 20218 165958 - <http://www.straininfo.net/strains/165958>
- Ref.: 20218 165959 - <http://www.straininfo.net/strains/165959>
- Ref.: 20218 53985 - <http://www.straininfo.net/strains/53985>
- Ref.: 20218 165960 - <http://www.straininfo.net/strains/165960>
- Ref.: 20218 165961 - <http://www.straininfo.net/strains/165961>
- Ref.: 20218 165962 - <http://www.straininfo.net/strains/165962>
- Ref.: 20218 53986 - <http://www.straininfo.net/strains/53986>
- Ref.: 20218 53987 - <http://www.straininfo.net/strains/53987>
- Ref.: 20218 334817 - <http://www.straininfo.net/strains/334817>
- Ref.: 20218 53988 - <http://www.straininfo.net/strains/53988>
- Ref.: 20218 165963 - <http://www.straininfo.net/strains/165963>

References

- Ref.: 9587 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 40635
- 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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