Supplementary Material

Comparative Genomics and Biosynthetic Potential Analysis of Two Lichen-Isolated *Amycolatopsis* Strains

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# Supplementary Table 1: *Amycolatopsis* genomes and 16S rRNA gene sequences used in this work. The NCBI sequence accession numbers are indicated.

| **Strain** | **Genome assembly reference** | **Assembly level** | **16S rRNA gene reference** | **Reference** |
| --- | --- | --- | --- | --- |
| *Amycolatopsis* sp.CA-126428 | PPHF00000000.1 | Contig | MG800320 | González et al*.,* 2005 |
| *Amycolatopsis* sp. CA-128772 | PPHG00000000.1 | Contig | MG799844 | Gonzálezet al*.,* 2005 |
| *A. alba* DSM 44262T | ARAF00000000.1 | Scaffold | AF051340 | Mertz and Yao, 1993 |
| *A. albidoflavus* DSM 44639T | - | - | AJ252832 | Lee et al*.,* 2000 |
| *A. albispora* WP1T | - | - | KT751086 | Zhang et al*.,* 2016 |
| *A. australiensis* DSM 44671T | FPJG00000000.1 | Contig | AY129753 | Tanet al*.*, 2006 |
| *A. azurea* DSM 43854T | MUXN00000000.1 | Scaffold | AJ400709 | Khatri et al*.*, 2014 |
| *A. balhimycina* DSM 44591T | ARBH00000000.1 | Scaffold | AJ508239 | Wink et al*.,* 2003 |
| *A. bartoniae* SF26T | - | - | HQ651729 | Zucchi et al*.,* 2012a |
| *A. benzoatilytica* DSM 43387T | ARPK00000000.1 | Scaffold | AY957506 | Majumdar et al*.*, 2006 |
| *A. bullii* SF27T | - | - | HQ651730 | Zucchi et al*.,* 2012a |
| *A. cihanbeyliensis* DSM 45679T | - | - | JN989302 | Tatar et al*.,* 2013 |
| *A. circi* DSM 45561T | - | - | HQ021202 | Everest et al*.,* 2011 |
| *A. coloradensis* DSM 44225T | MQUQ00000000.1 | Scaffold | AJ293753 | Labeda et al*.*, 1995 |
| *A. decaplanina* DSM 44594T | AOHO00000000.1 | Contig | AJ508237 | Kaur et al*.,* 2013 |
| *A. dongchuanensis* YIM 75904T | - | - | JN656710 | Nie et al*.,2012* |
| *A. echigonensis* LC2T | - | - | AB248535 | Dinget al*.,* 2007 |
| *A. endophytica* KLBMP 1221T | - | - | HM153799 | Miao et al*.,* 2011 |
| *A. equina* DSM 45563T | - | - | HQ021204 | Everest et al*.,* 2011 |
| *A. eurytherma* DSM 44348T | - | - | AJ000285 | Kim et al*.,* 2002 |
| *A. granulosa* GY307T | - | - | AF466101 | Zucchi et al., 2012b |
| *A. halophila* DSM 45216T | AZAK00000000.1 | Scaffold | FJ606836 | Tang et al*.,* 2010 |
| *A. halotolerans* N4-6T | - | - | DQ000196 | Lee, 2006 |
| *A. helveola* TT00-43T | - | - | AB327253 | Tamura et al*.,* 2010 |
| *A. hippodromi* DSM 45562T | - | - | HQ021203 | Everest et al*.,* 2011 |
| *A. hippodromi* S3.6T | - | - | HQ021203 | Everest et al*.,* 2011 |
| *A. japonica* DSM 44213T | CP008953.1 | Complete | AJ508236 | Stegmann et al*.,* 2014 |
| *A. jejuensis* NRRL B-24427T | JNYZ00000000.1 | Contig | DQ000200 | Lee, 2006 |
| *A. jiangsuensis* KLBMP 1262T | - | - | JQ819253 | Xing et al*.,* 2013 |
| *A. kentuckyensis* DSM 44652T | MUMI00000000.1 | Contig | AY183357 | Labeda et al*.*, 2003 |
| *A. keratiniphila* subsp. *keratiniphila* DSM 44409T | LQMT00000000.2 | Contig | AJ278496 | Wink et al*.,* 2003 |
| *A. keratiniphila* subsp. *nogabecina* DSM 44586T | LT629789.1 | Complete | AJ508238 | Wink et al*.,* 2003 |
| *A. lexingtonensis* DSM 44653T | MUMJ00000000.1 | Contig | AY183358 | Labeda et al*.*, 2003 |
| *A. lurida* DSM 43134T | CP007219.1 | Complete | AJ293755 | Kwun and Hong, 2014 |
| *A. magusensis* DSM 45510T | - | - | HQ157190 | Camas et al*.,* 2013 |
| *A. marina* NBRC 104263T | FOKG00000000.1 | Scaffold | EU329845 | Bian et al*.*, 2009 |
| *A. mediterranei* DSM 43304T | - | - | AJ293754 | Lechevalier et al*.,* 1986 |
| *A. mediterranei* RB | CP003777.1 | Complete | CP003777.1 | Zhao et al., 2010 |
| *A. mediterranei* S699 | CP003729.1 | Complete | CP003729.1 | Tang et al., 2012 |
| *A. mediterranei* U32 | CP002000.1 | Complete | CP002000.1 | Zhao et al*.*, 2010 |
| *A. methanolica* NRRL B-24139T | CP009110.1 | Complete | AJ249135 | Tang et al, 2016 |
| *A. minnesotensis* 32U-2T | - | - | DQ076482 | Lee et al*.,* 2006 |
| *A. nigrescens* DSM 44992T | ARVW00000000.1 | Contig | DQ486888 | Groth et al., 2007 |
| *A. niigatensis* LC11T | - | - | AB248537 | Dinget al*.,* 2007 |
| *A. orientalis* B-37 | CP016174.1 | Complete | CP016174.1 | Lei et al*.*, 2015 |
| *A. orientalis* DSM 40040T | ASJB00000000.1 | Contig | AJ400711 | Lechevalieret al*.,* 1986 |
| *A. orientalis* DSM 43388 | ASXG00000000.1 | Contig | ASXG00000000.1 | Jeong et al*.,* 2013 |
| *A. orientalis* DSM 46075 | ASXH00000000.1 | Contig | ASXH00000000.1 | Jeong et al*.,* 2013 |
| *A. orientalis* HCCB10007 | CP003410.1 | Complete | CP003410.1 | Xu et al*.*, 2014 |
| *A. palatopharyngis* 1BDZT | - | - | AF479268 | Huang et al*.,* 2004 |
| *A. pigmentata* TT99-32T | - | - | AB327254 | Tamura et al*.,* 2010 |
| *A. plumensis* DSM 44776T | - | - | AY262825 | Saintpierre-Bonaccio et al*.,* 2005 |
| *A. pretoriensis* DSM 44654T | MUMK00000000.1 | Scaffold | AY183356 | Labeda et al*.*, 2003 |
| *A. regifaucium* DSM 45072T | LQCI00000000.1 | Contig | AY129760 | Tanet al*.*, 2007 |
| *A. rhabdoformis* SB026T | - | - | KF779477 | Souza et al*.,* 2015 |
| *A. rifamycinica* DSM 46095T | JMQI00000000.1 | Contig | AY083603 | Saxenaet al*.,* 2014 |
| *A. roodepoortensis* DSM 46661T | - | - | KF771262 | Everest et al*.,* 2014 |
| *A. ruanii* NMG112T | - | - | HQ668524 | Zucchi et al., 2012b |
| *A. rubida* DSM 44637T | FOWC00000000.1 | Contig | AF222022 | Huang et al*.,* 2001 |
| *A. saalfeldensis* DSM 44993T | FOEF00000000.1 | Scaffold | DQ792500 | Carlsohn et al*.,* 2007 |
| *A. sacchari* DSM 44468T | FORP00000000.1 | Contig | AF223354 | Goodfellow et al*.,* 2001 |
| *A. salitolerans* TRM F103T | - | - | HQ436534 | Guan et al*.,* 2012 |
| *A. samaneae* RM287T | - | - | GQ381310 | Duangmal et al*.,* 2011 |
| *Amycolatopsis* sp. ATCC 39116 | AFWY00000000.3 | Contig | AM263202 | Davis et al*.,* 2012 |
| *Amycolatopsis* sp.CB00013 | LIWC00000000.1 | Scaffold | KT722894 | Yan et al, 2016 |
| *Amycolatopsis* sp.M39 | [LWSF00000000.1](https://www.ncbi.nlm.nih.gov/nuccore/LWSF00000000.1) | Scaffold | KX161771 | Beemelmanns et al*.,* 2017 |
| *Amycolatopsis* sp. MJM2582 | JPLW00000000.1 | Scaffold | KP872909 | Kwun et al*.*, 2014 |
| *A. speibonae* DSM 4660T | - | - | KF771257 | Everest et al*.,* 2014 |
| *A. stemonae* ST1-08T | - | - | LC011703 | Klykleung et al*.,* 2015 |
| *A. sulphurea* DSM 46092T | - | - | AJ293756 | Lechevalier et al., 1986 |
| *A. taiwanensis* DSM 45107T | JAFB00000000.1 | Scaffold | DQ160215 | Tseng et al*.,* 2006 |
| *A. thailandensis* CMU-PLA07T | - | - | FJ581021 | Chomchoei et al*.,* 2011 |
| *A. thermalba* SF45T | - | - | HQ668525 | Zucchi et al., 2012b |
| *A. thermoflava* DSM 44574T | AXBH00000000.1 | Scaffold | AF052390 | Chun et al*.*, 1999 |
| *A. thermophila* GY088T | - | - | AY129774 | Zucchi et al., 2012c |
| *A. tolypomycina* DSM 44544T | FNSO00000000.1 | Contig | AJ293757 | Wink et al*.,* 2003 |
| *A. tucumanensis* DSM 45259T | - | - | DQ886938 | Albarracín et al*.,* 2010 |
| *A. ultiminotia* DSM 45180T | - | - | FM177516 | Lee, 2009 |
| *A. umgeniensis* DSM 45272T | - | - | DQ110876 | Everest et al*.,* 2013 |
| *A. vancoresmycina* DSM 44592T | JNYY00000000.1 | Contig | AJ508240 | Kaur et al*.*, 2014 |
| *A. viridis* GY115T | - | - | AF466095 | Zucchi et al., 2012c |
| *A. xylanica* DSM 45285T | FNON00000000.1 | Scaffold | FJ529702 | Chen et al*.,* 2010 |
| *Micromonospora chalcea* DSM 43026T |  |  | X92594 | Foulerton, 1905 |

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