

SUPPLEMENTARY MATERIAL

Table S1. Identification of *Nocardia* spp. by phenotypic methods and 16S rDNA sequencing based on alignment with reference sequences and by BLASTn was provided as Supplementary Material on *The Open Microbiology Journal* Web site.

Table S1. Identification of *Nocardia* spp. by Phenotypic Methods and 16S rDNA Sequencing Based on Alignment with Reference Sequences and by BLASTn

Strain ID	Phenotypic Identification	Identification by Alignment with Reference Sequence ¹	Identification by BLASTn Alignment	GenBank % Similarity/no. Matched Sequences ²	BIBI % Similarity/no. Matched Sequences ²	RDP-II % Similarity/no. Matched Sequences ²
ATCC strains						
ATCC 19247 ^T	<i>Nocardia asteroides</i>	<i>N. asteroides</i>	<i>N. asteroides</i>	100/3	100/3	100/2
ATCC 3308	<i>Nocardia farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i>	100/13	100/11	100/7
			<i>Nocardia otitidiscaviarum</i> ³	100/1	100/1	100/1
ATCC 3318 ^T	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i>	100/13	100/11	100/7
			<i>N. otitidiscaviarum</i> ³	100/1	100/1	100/1
ATCC 33726 ^T	<i>Nocardia nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
ATCC 14629 ^T	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	100/5	100/5	100/4
ATCC BAA-278 ^T	<i>Nocardia paucivorans</i>	<i>N. paucivorans</i>	<i>N. paucivorans</i>	100/1	100/1	100/1
Clinical isolates						
00-061-3088	<i>N. asteroides</i>	<i>Nocardia beijingensis</i>	<i>N. beijingensis</i>	100/13	100/18	98.1/13
00-159-1584	<i>N. asteroides</i>	<i>Nocardia cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	99.8/35	99.8/21	99.1/15
00-236-1204	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
00-279-0751	<i>N. asteroides</i> complex ⁴	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
00-361-0960	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
01-066-1903	<i>N. asteroides</i>	<i>N. nova</i>	<i>N. nova</i>	99.7/4	100/4	100/4
01-226-3924	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
01-317-3331	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
01-320-2714	<i>N. asteroides</i>	<i>Nocardia arthritis</i> ⁵	<i>N. beijingensis</i> ⁶	99.6/1	99.6/1	97.61
02-071-3627	<i>N. asteroides</i>	<i>N. asteroides</i> Type I	<i>N. asteroides</i>	99.0/3	100/3	100/2
02-150-3195	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
02-347-2673	<i>N. asteroides</i> complex ⁴	<i>Nocardia abscessus</i>	<i>N. asteroides</i>	100/1	100/2	
			<i>N. abscessus</i>	100/6	100/6	100/5
			<i>Nocardia asiatica</i>	100/8	100/12	100/8
03-044-3083	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
03-065-1348	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
03-072-1482	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
03-078-3387	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
03-090-3765	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
03-125-3479	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
03-141-3073	<i>N. asteroides</i> complex ⁴	<i>N. paucivorans</i>	<i>N. paucivorans</i>	100/1	100/1	100/1

Table S1. contd....

Strain ID	Phenotypic Identification	Identification by Alignment with Reference Sequence ¹	Identification by BLASTn Alignment	GenBank % Similarity/no. Matched Sequences ²	BIBI % Similarity/no. Matched Sequences ²	RDP-II % Similarity/no. Matched Sequences ²
Clinical isolates						
03-185-3304	<i>N. asteroides</i>	<i>N. paucivorans</i>	<i>N. paucivorans</i>	100/1	100/1	100/1
03-240-2758	<i>N. asteroides</i> complex ⁴	<i>N. paucivorans</i>	<i>N. paucivorans</i>	100/1	100/1	100/1
03-246-1321	<i>N. asteroides</i> complex ⁴	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
03-294-3356	<i>N. asteroides</i>	<i>N. beijingensis</i>	<i>N. beijingensis</i>	100/13	100/18	98.1/13
03-342-3119	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
04-128-3054	<i>N. asteroides</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
04-141-1037	<i>N. asteroides</i> complex ⁴	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7
04-167-1813	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
04-181-3939	<i>N. asteroides</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	99.8/35	99.8/21	99.1/15
04-204-3567	<i>N. asteroides</i>	<i>Nocardia veterana</i>	<i>N. veteran</i>	100/5	100/8	100/4
05-034-0715	<i>N. asteroides</i> complex ⁴	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
05-040-4253	<i>N. asteroides</i> complex ⁴	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
05-062-1428	<i>N. asteroides</i> complex ⁴	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
05-073-0700	<i>N. asteroides</i> complex ⁴	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
05-111-2308	<i>N. asteroides</i> complex ⁴	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	99.8/35	99.8/21	99.1/15
99-167-2395	<i>Nocardia brasiliensis</i>	<i>N. brasiliensis</i>	<i>N. brasiliensis</i>	100/1	100/1	100/1
00-194-3516	<i>N. brasiliensis</i>	<i>N. brasiliensis</i>	<i>N. brasiliensis</i>	100/2	100/4	100/2
01-114-2816	<i>N. brasiliensis</i>	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	100/1	100/1	100/1
03-273-2825	<i>N. brasiliensis</i>	<i>N. brasiliensis</i>	<i>N. brasiliensis</i>	100/1	100/1	100/1
QAP00-122	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7
99-291-2642	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7
00-122-3261	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7
01-109-2248	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7
03-072-2892	<i>N. farcinica</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
03-177-3035	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7
03-225-1079	<i>N. farcinica</i>	<i>N. cyriacigeorgica</i>	<i>N. cyriacigeorgica</i>	100/35	100/21	100/15
05-048-3600	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7
05-186-4091	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7
05-207-0815	<i>N. farcinica</i>	<i>N. farcinica</i>	<i>N. farcinica</i> / <i>N. otitidiscaviarum</i> ³	100/13	100/11	100/7

Table S1. contd....

Strain ID	Phenotypic Identification	Identification by Alignment with Reference Sequence ¹	Identification by BLASTn Alignment	GenBank % Similarity/no. Matched Sequences ²	BIBI % Similarity/no. Matched Sequences ²	RDP-II % Similarity/no. Matched Sequences ²
98-286-1121	<i>Nocardia nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/4	100/4	100/4
99-270-2693	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
00-025-0538	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.8/2	99.8/2	99.0/2
00-056-3529	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/4	100/4	100/4
00-130-2170	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.8/5	99.8/6	100/4
00-314-1789	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.8/2	99.8/2	99.0/2
00-328-2545	<i>N. nova</i>	<i>N. veterana</i>	<i>N. veterana</i>	100/5	100/8	100/4
01-067-1349	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/4	100/4	100/4
01-097-0996	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/4	100/4	100/4
01-290-2233	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
02-021-0419	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.8/2	99.8/2	99.0/2
02-190-3153	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
02-199-2723	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/4	100/4	100/4
02-338-3117	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
02-352-3316	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.8/5	99.8/6	100/4
03-023-2333	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.7/5	99.6/6	100/4
03-148-3019	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.7/5	99.6/6	100/4
03-148-3335	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.7/5	99.6/6	100/4
03-191-3673	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.7/5	99.6/6	100/4
03-193-1476	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.7/5	99.6/6	100/4
03-209-3294	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
03-311-3419	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
04-110-3287	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.7/9	99.6/11	100/8
04-147-3176	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
04-150-0614	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.8/2	99.8/2	99.0/2
04-304-1735	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
05-053-4454	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	99.3/4	99.6/4	99.3/4
05-141-1366	<i>N. nova</i>	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
00-188-1453	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	100/5	100/5	100/4
01-257-1336	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	100/5	100/5	100/4
04-009-0080	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	<i>N. otitidiscaviarum</i>	100/5	100/5	100/4
97-114-0609	<i>Nocardia</i> spp.	<i>N. paucivorans</i>	<i>N. paucivorans</i>	100/1	100/1	100/1
97-16298	<i>Nocardia</i> spp.	<i>N. paucivorans</i>	<i>N. paucivorans</i>	100/1	100/1	100/1
99-146-2360	<i>Nocardia</i> spp.	<i>N. vinacea</i>	<i>N. vinacea</i>	100/3	100/3	100/2
02-317-3646	<i>Nocardia</i> spp.	<i>N. nova</i>	<i>N. nova</i>	100/5	100/5	100/4
03-310-2776	<i>Nocardia</i> spp.	<i>N. transvalensis</i>	<i>N. transvalensis</i>	99.7/3	99.6/5	98.8/2
03-342-3449	<i>Nocardia</i> spp.	<i>N. farcinica</i>	<i>N. farcinica</i>	100/13	100/11	100/7
			<i>N. otitidiscaviarum</i> ³	100/1	100/1	100/1

Table S1. contd....

Strain ID	Phenotypic Identification	Identification by Alignment with Reference Sequence ¹	Identification by BLASTn Alignment	GenBank % Similarity/no. Matched Sequences ²	BIBI % Similarity/no. Matched Sequences ²	RDP-II % Similarity/no. Matched Sequences ²
04-241-1298	<i>Nocardia</i> spp.	<i>N. veterana</i>	<i>N. veteran</i>	100/5	100/8	100/4
04-303-0576	<i>Nocardia</i> spp.	<i>Nocardia aobensis</i>	<i>N. aobensis</i>	99.8/4	99.8/4	98.8/4
04-352-2154	<i>Nocardia</i> spp.	<i>N.veterana</i>	<i>N. veteran</i>	100/5	100/8	100/4
05-118-2483	<i>Nocardia</i> spp.	<i>N. farcinica</i>	<i>N. farcinica/</i>	100/13	100/11	100/7
			<i>N. otitidiscaviarum</i> ³	100/1	100/1	100/1
05-200-1797	<i>Nocardia</i> spp.	<i>N. paucivorans</i>	<i>N. paucivorans</i>	100/1	100/1	100/1

¹Identification achieved with 100% sequence similarity (identity) to reference sequence unless specified otherwise.

²Number of sequences in database with 100% sequence similarity to sequence of isolate.

³*N. otitidiscaviarum* strain DSM 43242^T probably represents a misidentification.

⁴The former *N. atseroides* complex encompassed species now designated as *N. abscessus*, *N. asteroides*, *N. cyriacigeorgica*, *N. farcinica*, *N. nova* and *N. transvalensis* [2].

⁵99% sequence similarity to reference *N. arthriditis* sequence (strain DSM 447231^T, GenBank accession no. AY903619).

⁶99.6% sequence similarity to a single *N. beijingensis* sequence (GenBank accession no. AY756543) but <99% similarity to multiple other *N. beijingensis*.

REFERENCE

- Brown-Elliott BA, Brown JM, Conville PS, Wallace RJ, Jr. Clinical and laboratory features of the *Nocardia* spp. based on current molecular taxonomy. Clin Microbiol Rev 2006; 19: 259-282. Note: