## Actinotalea subterranea sp. nov.

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**Table 1:** Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Туре	Registry URL
Species Actinotalea subterranea	[sub.ter.ra.ne'a] <b>L. fem. adj.</b> subterranea, subterranean, referring to the site of isolation	Description is based on two strains. Cells are Gram-stain-positive rods, motile at the early stage of incubation. Colonies formed after 5 days incubation on R2A medium at 28 °C are yellow, smooth, circular, convex, and non-transparent, with entire edges. Grows on PCA, nutrient agar, R2A, and LB media. Growth of the type strain occurs in the presence of 0-4% ( <i>w</i> / <i>v</i> ) NaCl (optimum, 1-2% NaCl), at pH 6.0-8.8 (optimum, pH 8.0-8.3) and at 10-40 °C (optimum, 28 °C). Growth of the reference strain occurs at 15-40 °C, 0-6% ( <i>w</i> / <i>v</i> ) NaCl and pH 6.2-8.5 with optimal conditions at 22-28 °C, 2-4% ( <i>w</i> / <i>v</i> ) NaCl and pH 6.6-7.5. Catalase-positive and oxidase-negative. Cells are positive for the following enzyme activities: esterase (C4), N-acetyl-β-glucosaminidase, α-galactosidase, β-galactosidase, α-glucosidase, β-glucosidase, β-glucorindase, naphthol-AS-BI-phosphohydrolase, leucine arylamidase, esterase lipase (C8), lipase (C14), valine arylamidase, acid phosphatase, and cystine arylamidase, but negative for trypsin, α-chymotrypsin, alkaline phosphatase, α-mannosidase, urease, and α-fucosidase. Does not produce indole or H2S, but NH3 is produced from peptone. Negative for the methyl red test and Voges-Proskauer reaction. Reduces nitrate to nitrite in a medium with acetate, but does not reduce nitrate to N2. Chemoorganoheterotrophic, facultatively anaerobic. In aerobic conditions utilizes peptone, yeast extract, acetate, and pyruvate; acid is produced from aesculin (Fe citrate), L-arabinose, arbutin, D-cellobiose, D-fructose, D-galactose, D-glucose, glycogen, D-mannose, salicin, D-sucrose, D-xylose, D-maltose, D-mannitol, starch, D-trehalose, D-turanose, and N-acetylglucosamine, but not from D-adonitol, amygdalin, D-arabinose, D-arabite, L-arabite, dulcitol, erythritol, D-fucose, L-fucose, inositol, inulin, D-lactose, D-lyxose, methyl-βD-xylopyranoside, methyl-αD-mannopyranoside, methyl-αD-glucopyranoside, D-melibiose, D-melicitose, gluconate K, 2-ketogluconate K, 5-ketogluconate K, D-ribose, L-tramnose, D-sorbitol, L-s	Actinotalea	NCBI Assembly: GCA_008364845.1	seqco.de/i:39440

Proposed Taxon	Etymology	fermentation/oxidation of inositol, sorbitol, and rhamnose. Acetic, propionic, iso-butyric, and is <b>Description</b> ds and CO2 are the major products of anaerobic glucose fermentation. Hydrogen is not	Parent Taxon	Туре	Registry URL
		produced. Sensitive to ampicillin (10 μg), chloramphenicol (30 μg), penicillin (10 μg), ciprofloxacin (5 μg), and erythromycin (15 μg), but resistant to gentamicin (10 μg) and kanamycin (30 μg). The peptidoglycan type is A4β, containing L-Orn (Lys)-D-Ser-D-Glu. The major cell-wall sugar is rhamnose; galactose, mannose, and glucose are also present. Major fatty acids (>5%) are anteiso-C15:0, C14:0, C16:0, and C15:0. The major menaquinone is MK-9(H4). The major polar lipids are diphosphatidylglycerol, unidentified glycolipids, and phosphoglycolipids. The type strain is HO-Ch2T, isolated from the methanogenic enrichment obtained from a petroleum reservoir (Nurlat, Russia). The DNA G + C content of the genome of the type strain HO-Ch2T is 73.4% and the genome size is 4.0 Mb. The EMBL/GenBank accession numbers for the 16S rRNA gene sequence and genome sequence of strain HO-Ch2T are MT225794 and GCA_008364845.1, respectively.			