

# Mesorhizobium xinjiangense sp. nov.

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

| Proposed Taxon                               | Etymology                                                                                                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Parent Taxon         | Type                                    | Registry URL                                            |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------|---------------------------------------------------------|
| Species<br><i>Mesorhizobium xinjiangense</i> | [xin.jiang.en'se]<br><b>N.L. neut. adj.</b><br><i>xinjiangense</i> ,<br>referring to<br>Xinjiang<br>province in<br>China, the area<br>where the type<br>strain was<br>isolated | Cells are Gram-stain-negative, aerobic, non-flagellated, non-gliding, rod-shaped, 0.3–0.5 µm in width, 0.4–1.0 µm in length. Colonies on LB are circular, convex, smooth, opaque, beige-pigmented and approximately 1.0–1.5 mm in diameter after 3 days at 37 °C. Growth occurs at 20–45 °C (optimum 37 °C), pH 6.0–9.5 (optimum pH 7.0–7.5), and in the presence of 0–6% (w/v) NaCl (optimum 0–1%). Cells are catalase-positive and oxidase-positive. They are negative for H <sub>2</sub> S production, citrate utilization, indole production, gelatinase production and starch hydrolysing but positive for arabinose, tryptophan deaminase and lysine decarboxylase according to API 20E tests. Acid is produced from d-arabinose, l-arabinose, d-ribose, d-xylose, d-adonitol, d-glucose, d-fructose, l-rhamnose, mannose, ESC, sorbitol, d-lyxose, d-fucose, l-fucose, d-arabitol and 5-keto-potassium gluconate (API 50 CHB). In API ZYM tests, positive for alkaline phosphatase, esterase (C4), leucine arylamidase, valine arylamidase, trypsin, acid phosphatase and naphthol-AS-BI-phosphohydrolase activities. In carbon source oxidation tests, cells are positive for d-sorbitol, d-mannitol, d-arabitol, glycerol, d-fructose-6-PO <sub>4</sub> , N-acetyl-d-glucosamine, l-alanine, l-arginine, l-glutamic acid, l-histidine, α-d-glucose, d-mannose, d-fructose, l-fucose, d-fucose, l-rhamnose, d-serine, d-glucuronic acid, glucuronamide, l-lactic acid, d-malic acid and l-malic acid. Q-10 is the sole respiratory quinone. The major polar lipids are phosphatidylethanolamine (PE), phosphatidylglycerol (PG), unidentified phospholipid (PL), phosphatidylcholine (PC), diphosphatidylglycerol (DPG), unidentified aminolipid (AL), unknown glycolipid (GL), unidentified aminophospholipid (APL2) and unidentified polar lipid (L1 and L2). The major cellular fatty acids (> 10.0%) are C19:0 cyclo ω8c and Summed Feature 8 (C18:1 ω6c and/or C18:1 ω7c). The genomic DNA G+C content of the type strain is 63.6 mol%. | <i>Mesorhizobium</i> | NCBI Assembly:<br>GCF_009749525.1<br>Ts | <a href="https://seqco.de/i:49632">seqco.de/i:49632</a> |