

## STUDIES ON THE *RHIZOBIUM* RESOURCES IN XINJIANG ARID AREA

### II. THE RESISTANCE AND PHYSIOLOGICAL AND BIOCHEMICAL FEATURES OF RHIZOBIA

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The rhizobia got in Xinjiang arid area were highly resistant to salinization, high temperature and antibiotic, etc. Among tested strains, 47% were able to grow in YMA medium with 0.68 mol/L NaCl and 32% grown with 0.86—1.03 mol/L NaCl; 49% of the strains were able to grow on YMA with pH 4 and 85% grown with pH 10; 43% of the strains were able to grow under 43°C and 55% were tolerant to 60°C for 10 minutes; 41% were good resistance to 500 $\gamma$  streptomycin and 26% to 1000 $\gamma$ . Some strains were possessed of special properties in physiological and biochemical reactions, as follow: 50% of strains were able to use citrate; 68% could liquify gelatin; 36% could hydrolyze casein.

**Key words** *Rhizobium* resources; Resistance; Physiological and biochemical reaction