

COMPARATIVE VIABILITY OF TWO *RHIZOBIUM* STRAINS IN SOILS

M. A. SALEH

Microbiology Laboratory, Department of Genetic Engineering and Biotechnology,
University of Rajshahi, Rajshahi-6205, Bangladesh

ABSTRACT

Viability of two *Rhizobium* strains (Rvm307 and Rca220) in four different soil samples *i.e.* soils of Kakonhat, Rajshahi; Ishwardi, Pabna; Bogra and Rajshahi university campus were studied under sterile and natural condition. After introduction of *Rhizobium* in soil, the abundance of *Rhizobium* decreased gradually with the increased incubation period. The rate of decline of Rvm307 is relatively slow in comparison to Rca220. The survivality of *Rhizobium* was lower in natural soil sample than in sterile sample. In the soil of Bogra, both the strains showed the higher survival rate than other three samples and the strain Rvm307 showed better performance than other strain in all the conditions,.

KEYWORDS: Natural Soil, *Rhizobium*, Sterile Soil, Viability