

# Vigro

## Seed Inoculant

**Vigro Seed Inoculant** has been developed through scientific processes of identification and reproduction of pure *Rhizobium* cultures by Sono Ag Products. Sono has been producing quality microbial products since 1975!

The Texas Department Of Agriculture recommends: “peanut growers use a *Rhizobium* Inoculant every time they plant peanuts. The bottom line is inoculation helps ensure that the crop has the mass of specific *Rhizobium* bacteria present for adequate infection and increased yield potential.”\* Other legume plants such as soybeans have equal need for *Rhizobium* inoculates.

### How do inoculants promote nitrogen fixation? (What is the science behind using inoculants?)

“Crop rotation, which includes legumes, offers the grower the welcome opportunity to take advantage of the nitrogen-fixing relationships between N-fixing bacteria and their symbiotic relationship with a host legume. This biological symbiotic relationship is a ‘you-scratch-my-back, I’ll-scratch-yours’ arrangement whereby the plant supplies an environment, nutrients, and organic substrate in which the microbial *Rhizobium* can grow and thrive. In turn, the *Rhizobium* ‘fixes’ or reduces atmospheric nitrogen, N<sub>2</sub>, to a form the plant can use. This process of nitrogen fixation of N<sub>2</sub>, which has a very strong chemical bond that can be broken down and the nitrogen assimilated into forms usable by the plant. In essence, this is “free” nitrogen. Inoculation introduces tremendous

numbers of bacterial cells of a specific strain or strains of particular *Rhizobium* or *Bradyrhizobium* to the soil environment in close contact with legume seed and roots where “infection”, the initiation of the symbiotic relationship, may occur. Often strains of *Rhizobium* are normally already present in the soil, but their numbers or their specificity to a particular legume are usually far less than optimum.”\*

**Vigro Seed Inoculant has a *Rhizobium* CFU Guaranteed Analysis of 2.8x10<sup>7</sup> per ml.**

**Vigro is proud to deliver the highest volume of *Rhizobium* per acre for your best yield!**

**Vigro is packaged in 2.5 gallon containers for easy measurement and handling in the field.**

Application Rates		
Row width	Vigro Rates oz.	1 Gallon Treats
30"	17	7.5
36"	15	8.5
38"	14	9
40"	13	9.75