



## ALPINE Injector Kit - Liquid Inoculant Use

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The ALPINE Injection Kit has been introduced to the general marketplace for the 2016 growing season. ALPINE has been working with growers and inoculant companies over the last decade to find a simple solution to mixing liquid inoculants for pulse crops with ALPINE G22. Growers have wanted an easy way to apply inoculants with ALPINE G22 through the existing ALPINE Application Kit.

### THE PROBLEM

ALPINE G22 and liquid inoculants have not been able to mix in the ALPINE tank for two major reasons:

- 1) **Physical incompatibility** where the two products would interact causing coagulation in the tank and plugging of filters.
- 2) **Survivability** of the rhizobium bacteria in the ALPINE G22 was limited to a short 4 hour time frame before becoming unviable.

### THE TESTING

ALPINE's replicated field trials during 2013-2015 compared two rates of liquid inoculum with ALPINE G22 to a granular inoculant and ALPINE G22. The data showed consistently that:

- 1) Higher rates of liquid inoculant placed in furrow did not produce a higher crop yield.
- 2) ALPINE G22 in furrow with a Liquid inoculant out yielded ALPINE G22 and granular inoculant.
- 3) ALPINE G22 in furrow with the 175ml/ac of the liquid inoculant resulted in the highest yields.

### THE RECOMMENDATIONS

**Consulting with your local ALPINE District Sales Manager is highly recommended before use.**

- 1) A granular inoculant must always be used in conjunction with the ALPINE G22 and liquid inoculant applied in furrow through the ALPINE Injection kit whenever the crop is seeded on **virgin pulse ground**.
- 2) We recognize that the label rate of in furrow inoculant on a number of products on the market is 1.5 litres per acre but through three years of testing different rates we found the 175 ml rate to work well, it yielded even better than in furrow granular inoculant. The lower than manufacturer recommended inoculant use rate of 175ml/ac is **only applicable** when used with ALPINE G22 and applied with the ALPINE Injection Kit.
- 3) To ensure fresh viable inoculant, purge the system whenever seeding has been halted for more than 4 hours.