

Concentration of **actosol** at the time of application: The Humic Acid optimum efficacy and its positive effect on increasing yield and quality of plants depends critically on its concentration at the time of application. At high concentration, humic acid has herbicidal effect and can cause phytotoxicity to the plants.

As shown in the following Figure1, application rate ranges from 800 ppm for foliar applications and 1500 ppm for soil applications.

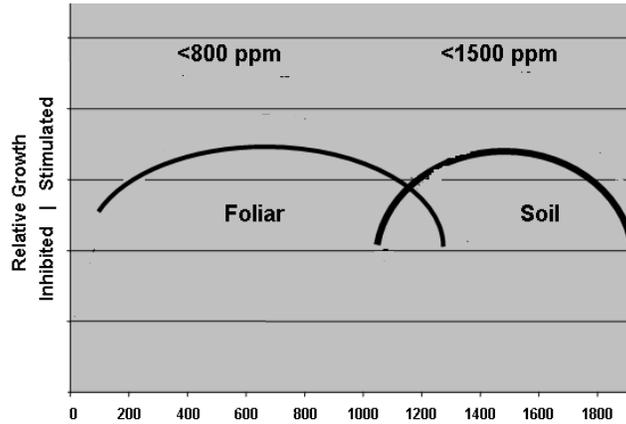


Figure 1 Application rates of humic acid for plant growth

Jar Test for compatibility:

actosol is compatible with most fertilizers, pesticides, fungicides & herbicides, However, a standard jar test is recommended. Combining chemicals to do several jobs with a single spray saves time and labor.

Following is the steps for conducting the jar test:

1. In one gallon container: Add ½ gallon of water and then add actosol and fertilizer, or actosol and pesticide, or actosol and fungicide, or actosol and herbicide in proportion to rates to be used in the field. Then mix well.
2. In another one gallon container: Add ½ gallon of water and 1/2 teaspoonful of an adjuvant; and then add actosol and the pesticide, or fungicide, or herbicide in proportion to rates to be used in the field.
3. Close both jars and shake for 30 seconds.
4. Let the jars stand for at least 5 minutes (30 minutes is better) and check the results. If the mixture without the adjuvant stays mixed, use the combination in the spray tank.
5. If the mixture **actosol** with the adjuvant and the pesticide or fungicide or herbicide stays mixed, but the one without the adjuvant does not, be sure to add the adjuvant to the spray tank.
6. Should either mixture separate after 5 minutes, but mixes readily after shaking, the mixture can be used in the spray tank if good agitation is maintained. If a separate oily layer, large oil globules, clumps of solids or sludge forms in the bottom of the jar containing adjuvant; the mixture should not be used.