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Client Sample ID: Turf & Garden Pro...      Date Sampled: Unknown  
Matrix: Aqueous      Date Submitted: 08-08-08  
Laboratory ID: 81132      Date Reported: 09-19-08

## PATHOGEN INHIBITION ASSAY

### METHODS

The sample was used at a dilution rate of 94%, per client's instructions, in the assay to determine whether active (biological) pathogen inhibitors were present. The pathogen was challenged in 12 trials for the sample and 12 trials for the sterile water control. Each trial utilized 20  $\mu$ L of the sample. Inhibition of pathogen growth was scored after a suitable culture time and was determined to be strongly inhibitory, partially inhibitory, or not inhibitory according to the size of the zone of inhibition.

### RESULTS

Pathogen Challenged	Inhibition to Pathogen Growth
<i>Fusarium oxysporum</i>	Partial Inhibition - 100% Trials (12/12)
<i>Phytophthora</i> sp.	Partial Inhibition - 100% Trials (12/12)

### INTERPRETATION

A trial is scored as strong inhibition if the pathogen shows little or no growth in the presence of a product sample, as partial inhibition if the pathogen shows some growth but is unable to expand and contact the product sample, and as no inhibition if the pathogen is able to grow up to and contact the product sample. This assay measures only direct inhibition, and does not reflect inhibition due to competition or plant responses under field conditions.

The product had only bacterial growth present, which contributed to the inhibition of the pathogens.

This assay is a screening mechanism only and should be followed by field trials for confirmation.

Reviewed by: 