

Organic Products Company
26744 CR 33
Groveland, FL 34736

Client Sample ID: Turf Pro Natural... **Date Sampled:** Unknown
Matrix: Granular **Date Submitted:** 08-15-08
Laboratory ID: 81143 **Date Reported:** 09-19-08

PATHOGEN INHIBITION ASSAY

METHODS

The product was added to sterile water in a 1:100 ratio, per client's instructions, for preparation of product extract. The extract was used in an undiluted form in the assay to determine whether active (biological) pathogen inhibitors were present. The pathogen was challenged in 12 trials for the extract and 12 trials for the sterile water control. Each trial utilized 20 µL of product. Inhibition of pathogen growth was scored after a suitable culture time and was determined to be either 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 sp.</i>	Strong 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 fungal 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:



ENVIRONMENTAL MICROBIOLOGICAL SERVICES