



February 20, 2006

Robert Dacri
Bio-Science Environmental Services Inc.
1501 NW 1st Court
Boca Raton, FL 33432

Dr. George Carroll, Ph.D., one of the worlds most respected micro-fungi scientists, is the Chief Scientist for MouldWorks. Dr. Carroll has taught and performed breakthrough research in micro-fungi for over 35 years at the University of Oregon, has over 45 publications on mycology, and has edited 3 books on the subject. He has served as President of the Mycological Society of America.

Dear Robert,

Many biocides and encapsulants on the market claim to eliminate established mold infestations in drywall or wood construction materials. Few of these products have actually been tested on infested building materials. MouldWorks carries out such tests on experimentally inoculated wallboard, OSB, plywood, and lumber.

We have tested a product (TM 100) sent to us by Bio-Sciences Environmental Services in Boca Raton Florida on mold-infested wallboard and lumber. 5" x 8" pieces of wallboard were heat-sterilized, soaked in sterile water, and each inoculated with one of five species of common interior molds. These were incubated under very moist conditions for two weeks, long enough for 2-3" zones of dense mold growth to appear in the middle of each wallboard slab. We then applied TM 100 to these slabs as directed and allowed them to dry slowly for 10 days. At the end of this period we thoroughly rewetted the samples, sealed them in plastic bags for one week, and then examined them for regrowth of the mold infestations. None of the TM-100-treated samples showed any sign of renewed mold growth. Evidently the product had killed both the residual mold spores and the established vegetative cells within the paper covering of the wallboard.

This result is particularly significant for *Stachybotrys* sp., which survived treatment with common kitchen detergent but was killed by TM-100. *Stachybotrys* infestations are among the most serious and possibly dangerous that a homeowner can face. Some strains of this mold make a truly nasty mix of mycotoxins and proteins that can cause illness in people who are chronically exposed. *Stachybotrys* favors substrates containing pure cellulose such as wallpaper and the paper on gypsum wallboard.

Sincerely yours,

George C. Carroll

Dr. George Carroll, Ph.D.
MouldWorks Mycologist

Headquarters:
(503) 227-0930
2133 SW Arnold Street
Portland, Oregon 97219

Laboratory:
335 Pacific Hall
University of Oregon
Eugene, OR 97403-5289