

July 17, 2019 Test Report: 19G0190-1

TEST REPORT

Amended - See Case Narrative

CLIENT: Adsil, Inc.

1901 Mason Ave, Suite 101 Daytona Beach, FL 32117

Attn: Wayne Bilodeau

OBJECTIVE: Determine the fungal resistance of a sample.

SAMPLES: The sample was delivered by the client on 6.5.2019 and was identified as:

1. MG1-3500*

The sample was analyzed according to ASTM G21-15.

Test organisms:

Aspergillus niger ATCC 9642

Penicillium funiculosum ATCC 11797 Chaetomium globosum ATCC 6205 Trichoderma virens ATCC 9645

Aureobasidium pullulans ATCC 15233

The customer supplied sample was cut into 2 x 2 inch specimens in the lab and run on nutrient-salts agar. The sample was inoculated by spraying with a mixed spore suspension. Sterilized filter paper on hardened nutrient salts agar was used as the viability control. The conditions for incubation were 28-30°C with a relative humidity of not less than 85% for 28 days.

RESULTS: Results were observed after 28 days of incubation. The control samples exhibited heavy

growth after two weeks, confirming the viability of the spore suspension. Digital images of the viability control are included in Figure 1. All macroscopic observations were confirmed by the use of a microscope at 20-200X magnification. A chart with the rating system is provided in Table 1. The results of the sample can be found in Table 2. Sample photos are

found in Figures 3 through 7.



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Table 1: ASTM G21 Results Interpretation Chart

Observed Growth on Specimens (Sporulating or Non-Sporulating	Rating
or Both)	
None*	0
Traces of growth (less than 10%)*	1
Light Growth (10 to 30%)	2
Medium Growth (30 to 60%)	3
Heavy Growth (60% to complete coverage)	4

^{*}A rating of trace or no growth (one or less) must be confirmed by microscopic observation particularly since non-sporulating growth may not be readily observed without the aid of a microscope. Traces of growth may be defined as scattered, sparse fungus growth such as might develop from a mass of spores in the original inoculums, or extraneous contamination such as fingermarks, insect feces, etc.

Table 2: ASTM G21 Sample Results

Sample ID	Observed Growth	Individual Rating	Figure
MG1-3500*	No Growth	0	3,4,5,6,7
Viability Controls	Heavy Growth (60% to complete coverage)	Not Applicable	1,2

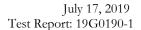






Figure 1- Viability Control at 0x exhibiting heavy growth





Figure 2 – Viability control at 20x exhibiting heavy growth



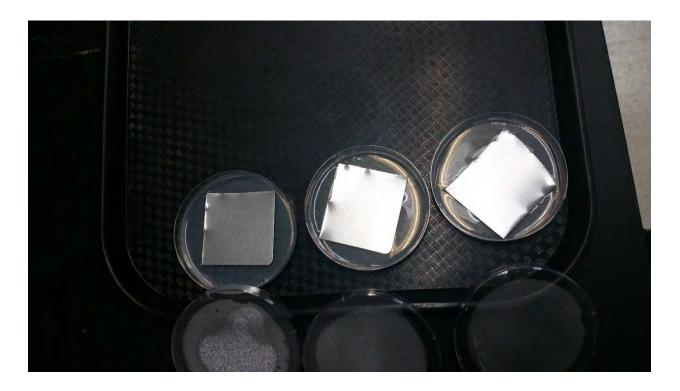


Figure 3 – 1. MG1-3500* at 0x magnification showing no growth and spore pooling

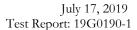
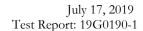






Figure 4 – MG1-3500* at 20x magnification exhibiting no growth and showing deposits of spores

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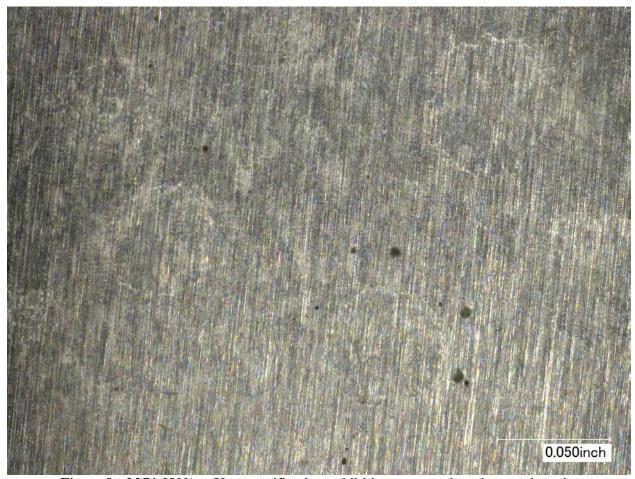


Figure 5 – MG1-3500* at 50x magnification exhibiting no growth and spore deposits



Spore Deposits

0.050inch

Figure 6 – MG1-3500* at 100x magnification exhibiting no growth and spore deposits

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Figure 7 - MG1-3500* at 200x magnification exhibiting no growth and spore deposits

Case Narrative: Revision 1 5/27/2020 RDN: Client requested sample ID be changed from AD1K3000 to MG1-3500.

REPORT WRITTEN BY:

What D. Neve

Rhett D. Neve Supervisor- Food & Nutrition **REPORT REVIEWED BY:**

Ashley Malchow Quality Director- Food & Nutrition

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