Pas	Situ Biosciences LLC	Product Test 2141 Foster Ave. W www.situbios 1 - 847 - 48	Cheeling II 60090 Biodegradation						
Customer Report Thursday, January 28, 2016									
00	Globe Industries Ltd. Bul.6-th September 222A		Plamen Dimitrov						
N T A	4000 Plovdiv	BG160059125							
C T	Bulgaria								
Project Title									
Antimicrobial Test									
10) 1015-BPT-01 -	4 <u>Entry Date</u>	<u>e</u> 12/2/2015						
Project Summary									

The AATCC 194 test method provides an assessment of the anti-insect properties of a treated material to the inhabitance of dust mites. Enumeration of the relative dust mite populations is by visual counting of the mites on the test material. The overall efficacy for a treated product is done by comparing a treated material to an untreated material following a 6 week incubation period.

Issues associated with dust mites are commonly related to the allergenic components from their waste material. The severity of dust mite allergies vary from person to person and from mite type to mite type.

Two test samples were evaluated in a modified AATCC 194 test survey. The untreated control sample demonstrated a well-established mite colony, with successive progeny of the mites, and mite eggs. Each test sample, demonstrate a slight reduction relative to the control materials (9% to 11%) relative to the control sample mite counts; but also demonstrated well established colonies exhibiting mite nymphs and eggs.

Sample List								
Method Name								
Sample #	Sample Name	Sample Notes						
AATCC 194 - Assessment of the Anti-House Dust Mite Properties of Textiles under Long Term Test Conditions								

1 T25/45 cinnamon

2 T25/45 zeolite

3 Untreated Control

Result Table											
Contact Globe Industries Ltd. Plam	nen Dimitrov										
Title Antimicrobial Test											
Project ID 1015-BPT-01 4 Entry Date	12/2/2015 <u>Test Star</u>	<u>t Date</u> 12/2/2015									
Result Table *											
Test Method AATCC 194 - Assessment of the Anti-House Dust Mite Properties of Textiles under Long Term Test Conditions											
Sample # 1 T25/45 cinnamon											
	Interval	Result									
Inoculum D. farinae () Notes Section											
3357 mites recovered (+/- 537) /g material	6 wk	11.9 % Reduction									
Test Method AATCC 194 - Assessment of the Anti-House Dust Mite Properties of Textiles under Long Term Test Conditions											
Sample # 2 T25/45 zeolite											
	Interval	Result									
Inoculum D. farinae () Notes Section											
3468 mites recovered ((+/- 554) /g material	6 wk	9.8 % Reduction									
Test Method AATCC 194 - Assessment of the Anti-House Dust Mite Properties of Textiles under Long Term Test Conditions											
Sample # 3 Untreated Control											
	Interval	Result									
Inoculum D. farinae () Notes Section											
2180 mites recovered (+/- 348) /g material	0 wk	-									
3846 mites recovered (+/- 615) /g material	6 wk	-									
Image: representative image											
dust mite Dermatophagoides farinae (D. farinae)											

AATCC 194 - Assessment of the Anti-House Dust Mite Properties of Textiles under Long Term Test Conditions

Express results as percent reduction versus the control, using the following formula: where: R = (A-B)/A * 100*R* = percent reduction of the test specimen versus the control.

A = the mean number of dust mites found on the control specimen.

B = the mean number of dust mites found on the test specimen.

For a valid test: If a healthy mite colony has been established on the negative control specimens during the six week test period, mites on the internal lab control do not need to be recovered and counted. However, if the mite numbers on the negative controls are lower than expected for a control in this time period, mites from the internal lab control must numbers outside of the normal range of mites previously established for each of the internal controls, invalidate the test.

Standard statistics cannot be established due to the inherent variability of different test samples. The standard deviation for dust mite counting with the internal control material is +/-16%.

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d p satchell Ph.D.

Technology Director

Report Addendum

Thursday, January 28, 2016

Project II) 1015-BPT-	-01 4	Entry Date	12/2/2015	Test Start Date	12/2/2015		
Image Table								
Sample #	3 Untreat	ted Control						
Test Met	Test Method AATCC 194 - Assessment of the Anti-House Dust Mite Properties of Textiles under Long Term Test Conditions							
Inoculum Image:	D. farinae representative	6 wk		Result Note	3846 mites recovered (+/- 615) /g r	naterial		

dust mite Dermatophagoides farinae (D. farinae)