



Document type  
BBF – Test Report

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# **Bed Bug Fix<sup>®</sup>**

## **Westgate Resorts Performs 46 Day Efficacy Test Report**

**Classification: For Official Use Only**

**7 June 2016**

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## 1 REFERENCED DOCUMENTS

Ref. no.	Doc id no.	Rev	Date	Title
[1]	Appendix C		10/22/2010	MSDS Pages
[2]	485-0033		6/7/2011	External Evaluation Test performed by ICR, Inc.

## 2 INTRODUCTION

The purpose of this test report is to review and document the results from a 46-day Bed Bug Fix<sup>®</sup> (BBF) efficacy test performed at Westgate Resorts Corporate Offices.

Bed Bug Fix<sup>®</sup> (BBF) is an environmentally-friendly, non-flammable, non-staining, non-toxic, bio-degradable, 100% natural insecticide. BBF claims to kill bed bugs in all lifecycle stages, adult, larva and eggs, on contact.

BBF also claims that the residual effect of a single treatment will last 46 days however it is suggested to proactively re-treat areas every 30 days for ongoing protection against a reinfestation.

This particular test will be to specifically examine the effects of a single treatment, over a 46-day period of time and its effect on adult bed bugs in a controlled environment.



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### **3 BBF EFFICACY TEST PLAN**

The BBF Test Plan takes two (2) BBF formulas and compares their results during the same time frame and under the same conditions. The bed bugs tested were wild and caught in Central Florida. The BBF formulas were produced:

New Formula: January 2016  
Old Formula: March 2008

#### **3.1 Entrance Criteria**

To begin the testing phase, the following items must be obtained.

Qty. one (1) Bottle of BBF new formula  
Qty. one (1) Bottle of BBF old formula  
Qty. two (2) Glass Containers  
Qty. One Hundred Forty (140) Wild Bed Bugs

#### **3.2 Exit Criteria**

This test is complete when all 46 days of testing are complete, all results are reported, and conclusions have been made on the efficacy of the two (2) BBF formulas.



## 4 SCHEDULE

### 4.1 Date, location:

These tests were performed from March 15, 2016 through April 29, 2016. These test were performed at Westgate Resorts Corporate Offices, 7450 Sandlake Commons Blvd, Orlando, FL 32819.

### 4.2 Daily Test Schedule

Specific dates during this test were chosen to evaluate the rate of bed bug deaths throughout this 46-day period. These dates were as follows:

Event #	Test Day #	Day	Month	Date
1	1	Tuesday	March	15
2	2	Wednesday	March	16
3	4	Friday	March	18
4	7	Monday	March	21
5	8	Tuesday	March	22
6	10	Thursday	March	24
7	11	Friday	March	25
8	14	Monday	March	28
9	15	Tuesday	March	29
10	16	Wednesday	March	30
11	17	Thursday	March	31
12	18	Friday	April	1
13	21	Monday	April	4
14	23	Wednesday	April	6

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15	24	Thursday	April	7
16	31	Thursday	April	14
17	35	Monday	April	18
18	36	Tuesday	April	19
19	37	Wednesday	April	20
20	45	Thursday	April	28
21	46	Friday	April	29



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## 5 TEST CRITERIA

- The same two (2) containers will be utilized throughout the testing period.
- The containers are glass and exactly the same in form, function and fit.
- Each container will test only one (1) formula throughout the duration of the testing.
  - o Container (A) will be Formula #1 (a.k.a. New Formula)
  - o Container (B) will be Formula #2 (a.k.a. Old Formula)
- The containers will be sprayed with either Formula #1 or Formula #2 on test day one (1) only.
- The only bed bugs to be used have been caught in the Central Florida wilderness.



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**6 DAILY TEST RESULTS**

Test Day #	Formula #1 (New)			Formula #2		
	# of Bed Bugs Added	# of Bed Bugs Dead	# of Bed Bugs Still Alive	# of Bed Bugs Added	# of Bed Bugs Dead	# of Bed Bugs Still Alive
1	Container Sprayed			Container Sprayed		
2	4			4		
4	2	4		2	4	
7	2	2		2	2	
8	2	2				2
10	3	2		1		1
11	3	3		1	1	
14	3	3		2	1	
15	2	3			1	1
16	2	2				1
17	3	2		2	1	
18		2	1		1	1
21		1		2	2	
23	2			2	2	
24	2	2			1	1
31	2	2			1	
35	2	2		2	2	
36	2	2			1	1
37	2	2		2	1	
45	1	2		1	1	
46		1				1





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## **7 SUMMARY/CONCLUSION**

### **7.1 Efficacy of Bed Bug Fix New Formula**

As expected the new BBF formula performed very well over the 46-day period with only one (1) instance of a single bed bug remaining alive for longer than a 24-hour period. Within 24-48 hours, this bed bug was also extinguished. Overall the single treatment of BBF at day 1 of the test, killed all 39 bed bugs that were introduced to the new formula.

### **7.2 Efficacy of Bed Bug Fix Old Formula**

The old BBF formula performed very well over the 46-day period. Although there were a few instances, as compared to the new BBF formula, where bed bugs lived for longer than a 24-hour period, in the end, only a single bed bug was still alive. From the previous 45 days of testing it can be assumed that this single bed bug would have also been extinguished within another 24-hour period. Overall the single treatment of BBF at day 1 of the test, killed all but 1 of the 22 bed bugs that were introduced to the old formula. It is assumed that the reduced efficacy compared to that of the new formula may simply be due to the manufacturing date and the product age.

