

GERM AWARENESS

"Superbugs could kill 10 million people a year by 2050, report warns."
Government Review – July 2014

THE RISE OF SUPER BUGS –

"Dangerous infections that are resistant to antibiotics are spreading and growing stronger, with dire consequences."
Consumer Reports – May 2016

INTRODUCTION

It began as a successful antimicrobial treatment for textiles and has now expanded into a treatment for all surfaces, a treatment devoid of chemicals yet capable of killing MRSA with a 99% efficacy after 100 washes on fabric. It remains after dozens of cleanings and recontaminations by individuals on any hard surface. Defend-GS™ bonds and fights bacteria at the atomic level yet is safe and harmless to the individuals that benefit from its use. It is non-toxic, chemical free, harmless to the environment and has no negative effects downstream.

All values are the average in colony-forming units (CFU) per square inch



BATHROOM COUNTER

1,288,817 CFU



REMOTE

1,211,687 CFU



DESK

614,907 CFU



PHONE

4,252 CFU



Contact Us



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Defend-GS™

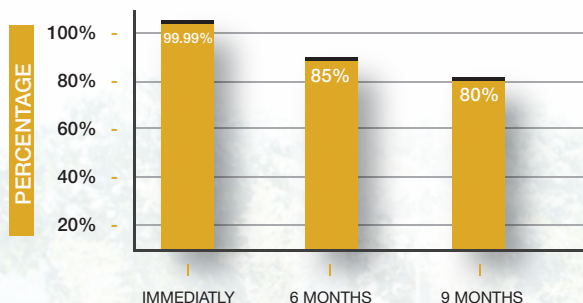
HOME APPLICATION

MAXIMUM BACTERIAL ODOR, MILDEW,
AND GERM CONTROL

www.limitlessworldwidellc.com
LL91016-2

APPLICATION TESTING RESULTS

Defend-GS™ uses an application of pure gold (.99999) and silver. Defend-GS™ is created in water at extremely low concentrations. In fact, to illustrate the safety level, the concentrations involved are lower than the EPA standard for standard municipal drinking water. The precision placement and permanent application create a very effective barrier against toxic bacteria buildup. The precisely fabricated nanoparticles in Defend-GS™ are able to mechanically disassemble the organisms on contact. They break down the bonds of the organisms and render them incapable of multiplying while being undetectable by humans on any surface. A permanent application takes place without the use of any chemical or toxic additive. The application is 100% organic and safe.



EFFECTIVENESS OVER TIME



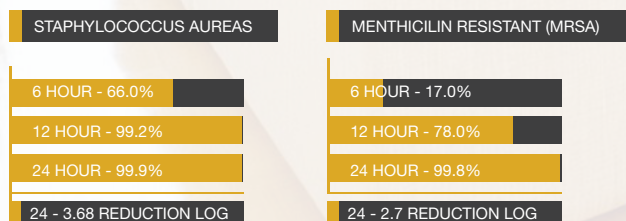
EFFECTIVE PRECISION

Defend-GS™ has a proprietary 2-part application process that applies billions of bacteria fighting units to any surface in a matter of seconds. Defend-GS™ is applied by a fine mist of micron-size water droplets. The unscented application does not mark, damage, or discolor surfaces. Also safe for textiles unaffected by contact with a fine water mist. A surface or textile can be used immediately after treatment. There is no waiting period. Once on that surface the nanoparticles bind at the atomic level and remain

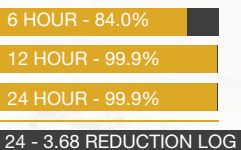
EFFECTIVE REAL WORLD RESULTS

Nelson Laboratories, an FDA-registered and ISO 17025 accredited provider of full life-cycle microbiology testing services, performed multiple anti-bacterial tests using Defend-GS™ material. In accordance with USFDA regulations 21 CFR Part 58, Nelson Labs conducted three Time Kill studies following standard Test Protocol 0158 Rev 02.

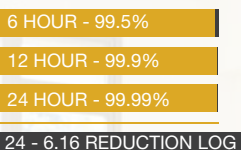
Results from the first Nelson Labs test, direct application



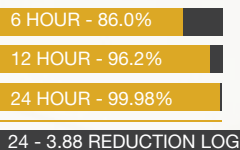
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E-COLI



LISTERIA



EFFECTIVE REAL WORLD RESULTS

Top 5 Organisms by quantity count found in 8 hotel rooms as identified from direct sampling

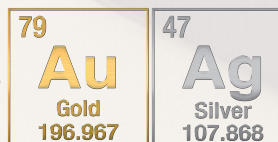
East Coast – West Coast – Mid-West (Nelson Labs)

01 STAPHYLOCOCCUS CAPITIS	04 STAPHYLOCOCCUS WARNERI
02 STAPHYLOCOCCUS EPIDERMIDIS	05 KOCURIA SALSICIA
03 MICROCOCCUS LUTEUS	

In lab test results as performed on actual hotel room surfaces after a single one second treatment

MARBLE	STAINLESS	PLASTIC ABS
81% REDUCTION	94% REDUCTION	87% REDUCTION
24 HOUR LAB TEST	24 HOUR LAB TEST	24 HOUR LAB TEST
CERAMIC TILE	FORMICA	PORCELAIN
96% REDUCTION	REDUCTION 91%	95% REDUCTION
24 HOUR LAB TEST	24 HOUR LAB TEST	24 HOUR LAB TEST

ALL NATURAL COMPONENTS



FABRICS (SHEETS, PILLOW COVERS, COMFORTERS, TEXTILES)

REFERENCE:

TS	115948	Sample Type	: Woven Fabric
Style	TSG- 10-14-15	Sample Form	: Yardage
Color	Dark Blue Size: N/A	Size	: N/A
Description pima; treated; sample "D" 100x			

TEST RESULTS:

Dimensional Change (Fabrics):

Dimensional Changes of Fabrics after Home Laundering - AATCC Test Method 1352012

Testing Information:

Home Laundered 100 times using AATCC Monograph M6 'Standardization of Home

LAUNDRY TEST CONDITIONS:

load size = 1.8kg (4lbs.).

Top Loader	Machine	Wash	Normal	Warm
Using 2003 AATGC Standard Liquid Reference Detergent WUB				
Tumble	Dry	Normal	Medium	

Ballast Wash Load Type 1 - 92 x 92 cm (35 x 36 in.) hemmed pieces of bleached cotton sheeting

Antibacterial Finishes: L-A-B Accredited ISDIEC 17025 Certificate # L223B Testing

Assessment of Antibacterial Finishes on Textile Materials - AATCC 100-2012

Results: cfu/sample			
Zero Contact Time	24hr Contact Time	Percent Reduction	
Staphylococcus aureus ATCC 6538	1.10E+07	9.99E+02	99.99196

Calculate % reduction to formula 2) 100 (C-A)/C = R; section 11.2

Testing Information: **E. coli was mn concurrently. Reported separately per customer request.

Staphylococcus aureus ATCC 6538	Sample size # layers: 4
Escherichia coli ATCC 25922	Sterilization: autoclave
Growth media: Tryptic Soy Broth	

The above test result illustrates the durability of the Defend-GS™ product. The sample cotton material was commercially laundered by a 3rd party (MSC) testing facility 100 times. The resulting removal of 99.991% of all bacteria after 100 washes is incomparable. A single treatment of Defend-GS™ binds and works at the atomic level. It does not wash off and can only be removed if the surface of an object is removed.

SAFETY

Defend-GS™ is non-toxic, chemical free, harmless to the environment and has no negative effects downstream. Because of its unique structure and fabrication method, it is a completely stable product. Defend-GS™ creates pure organic metal alloys that are not chemically manufactured, altered, or stored. The manufacturing process is environmentally friendly and requires very little space and energy. Defend-GS™ has an extremely small, non-existent carbon footprint that is world changing on a world economic scale.

