



A Cleaner, Lockable Way to Get Charged Up

Let's Talk Dirty

Scientifically proven to kill 99.9% of all germs, bacteria and yeast found on your toys. Adult pleasure toys can collect harmful bacteria that may cause infection. Proper cleaning of toys is crucial to avoid infections from germs and yeast-including STDs like chlamydia, syphilis, herpes, bacterial vaginosis, HIV and hepatitis B/C. While every toy manufacturer has a recommended way to clean its toys, there's never been a universal method to safely and effectively kill harmful bacteria and completely sanitize your toys.



“UV-C technology destroys cell walls and DNA to the point of no recovery for the bacterial population that are exposed to the UV-C rays.”

Cleaned up. Turned on.

Scientifically tested by a master biochemist with years of experience in laboratory testing, UVee's™ scientifically proven, patent-pending germicidal UVC light system kills 99.9% of all germs that may cause infections associated with the use of adult pleasure toys. And it's quick and easy to use! Simply wipe or rinse off your toy, place it inside the UVee™ chamber and close the lid. In just a few minutes your device will be clean and recharging. All it requires is access to a 110V power outlet.



BACTERIAL BACKGROUND INFORMATION

The following provides pertinent information on the bacteria used for testing. Standard bacteria testing for Quality Control used were: *Escherichia coli*, *Staphylococcus aureus*, *Streptococcus* sp. However, they do have clinical significance relevance to the intention of the final product. (3) organisms also studied were *Gardnerella vaginalis*, *Lactobacillus acidophilus*, and *Candida albicans*. Each of these three organisms has been implicated in causing issues with vaginal health.

5, 10 Minute UV Light Exposure - 24 Hour Timepoint* (48 hours for *Lactobacillus* and *Gardnerella*)

Organism	Control	5 minute	10 minute
<i>Escherichia coli</i>	100% growth	~99.9%	≥99.9%
<i>Staphylococcus aureus</i>	100% growth	~99.9%	≥99.9%
<i>Streptococcus. sp.</i>	100% growth	~99.9%	≥99.9%
<i>Candida albicans</i>	100% growth	~99.9%	≥99.9%
<i>Lactobacillus acidophilus</i>	100% growth	~99.9%	≥99.9%
<i>Gardnerella vaginalis</i>	100% growth	~99.9%	≥99.9%

* Timepoint growth was also observed at 3 days and 14 days as a sanitization standard suggested per US Pharmacopeia. No notable growth was seen

* 100% growth

MATERIAL TESTING AND VALIDATION

This component of the study brings a higher level of validity, in terms of bactericidal effects, to UVee. With material testing against the UV-C lamps, this study will ensure that it will be generally effective on the materials tested. Another aspect to consider in this study is the effect of these UV-C lamps on biofilms. Users of adult toys might likely not clean their toys immediately after use and because formation of biofilm may occur within a few hours, testing of this is essential.

In this study we look at how effective UVee is against biofilms formed after 12 hours.

UV efficacy on material, 10 minute UV exposure with and without 12 hour biofilm formation*

Organism	Control	Platinum Silicone	Jelly	ABS Plastic	Medical Grade Silicone	Glass
<i>Escherichia coli</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Staphylococcus aureus</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Streptococcus. sp.</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Candida albicans</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Lactobacillus acidophilus</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Gardnerella vaginalis</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%

* Percentages based on visual analysis, not actual counts.



CREVICE TESTING AND VALIDATION

While biofilms are a natural way for bacteria to persist in an environment, bacteria can easily make it to crevices and cracks and folds that are built in to many of the toys used by consumers. This experiment was set up to determine how effective UV-C rays are in reaching these crevices and eliminating bacteria there. The findings are that UVee is more than 99.9% effective at reaching into crevices and eliminating bacteria there.

UV efficacy on material, 10 minute UV exposure*

Organism	Control	Slim Rabbit (border)	Slim Rabbit (rabbit)	Power Swirl	Flex Skin (folds)
<i>Escherichia coli</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Staphylococcus aureus</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Streptococcus. sp.</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Candida albicans</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Lactobacillus acidophilus</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Gardnerella vaginalis</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%

*Percentages based on visual analysis, not actual counts.

CREVICE TESTING AND VALIDATION

Experiment involves testing the efficacy of the UV-C on the Magic Wand. Following experimentation, the data suggests the UV-C lamps are sufficient to demonstrate bactericidal effects within 5 minutes on both the small and large Magic Wand products.

The time of UV light exposure in UVee was 5 minutes, which is effective (up to 99.9%).

5 Minute UV Light Exposure - 24 Hour Timepoint* (48 hours for *Lactobacillus* and *Gardnerella*)

Organism	Control	5 minute
<i>Escherichia coli</i>	100% growth*	-99.9%
<i>Staphylococcus aureus</i>	100% growth	-99.9%
<i>Streptococcus. sp.</i>	100% growth	-99.9%
<i>Candida albicans</i>	100% growth	-99.9%
<i>Lactobacillus acidophilus</i>	100% growth	-99.9%
<i>Gardnerella vaginalis</i>	100% growth	-99.9%

* Timepoint growth was also observed at 3 days and 14 days as a sanitization standard suggested per US Pharmacopeia. No notable growth was seen

* 100% growth = or greater to 100 colonies counted on plate



COMPARISON TO GEL FOAM AND SPRAY

This experiment was created to compare the effectiveness of cleaning toys with gel foams and spray cleaners against the measure of bactericidal efficacy demonstrated by UV-C. Besides rinsing with water and soap, gel foams and spray cleaners are common ways to clean toys after use. In this experiment, the bactericidal efficacy of gel foam, spray cleaning, and UV-C exposure was tested against 6 bacteria of interest on 5 different materials (platinum silicone, jelly, ABS plastic, Medical grade silicone, and glass). The findings are that UV-C are more effective at killing these tested bacteria on the materials tested than using gel foam and spray cleaner. UV-C bactericidal effect is anywhere from 2 to 5 times more effective.

Bactericidal Efficacy Comparison of Cleaning Methods – UV-C *

Organism	Control	Platinum Silicone	Jelly	ABS Plastic	Medical Grade Silicone	Glass
<i>Escherichia coli</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Staphylococcus aureus</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Streptococcus. sp.</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Candida albicans</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Lactobacillus acidophilus</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%
<i>Gardnerella vaginalis</i>	100% growth	≥99.9%	≥99.9%	≥99.9%	≥99.9%	≥99.9%

*Percentages based on visual analysis, not actual counts.

Bactericidal Efficacy Comparison of Cleaning Methods – Gel Foam *

Organism	Control	Platinum Silicone	Jelly	ABS Plastic	Medical Grade Silicone	Glass
<i>Escherichia coli</i>	100% growth	~50%	~60%	~60%	~65%	~90%
<i>Staphylococcus aureus</i>	100% growth	~50%	~50%	~50%	~60%	~90%
<i>Streptococcus. sp.</i>	100% growth	~99%	~99%	~99%	~99%	~99%
<i>Candida albicans</i>	100% growth	~40%	~70%	~70%	~55%	~99%
<i>Lactobacillus acidophilus</i>	100% growth	~99%	~99%	~99%	~99%	~99%
<i>Gardnerella vaginalis</i>	100% growth	~99%	~99%	~99%	~99%	~99%

*Percentages based on visual analysis, not actual counts.



COMPARISON TO GEL FOAM AND SPRAY© Clean Light Laboratories, LLC

Bactericidal Efficacy Comparison of Cleaning Methods – Spray Cleaner *

Organism	Control	Platinum Silicone	Jelly	ABS Plastic	Medical Grade Silicone	Glass
<i>Escherichia coli</i>	100% growth	~30%	~60%	~30%	~40%	~80%
<i>Staphylococcus aureus</i>	100% growth	~30%	~60%	~70%	~30%	~90%
<i>Streptococcus. sp.</i>	100% growth	~99%	~99%	~99%	~99%	~99%
<i>Candida albicans</i>	100% growth	~30%	~50%	~80%	~70%	~99%
<i>Lactobacillus acidophilus</i>	100% growth	~99%	~99%	~99%	~99%	~99%
<i>Gardnerella vaginalis</i>	100% growth	~99%	~99%	~99%	~99%	~99%

*Percentages based on visual analysis, not actual counts.

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 Patent Pending