



## Product Performance Data Summary Germ Blitz Disinfectant Spray

### Summary Results

On June 19, 1985 two lots of Germ Blitz **Disinfectant Spray** (Lot #1, 12002B and Lot #2, 12002B) were tested by Biolabs, Inc., Northbrook, IL against **Human Herpes Simplex Virus Type 1 ATCC #VR-733F**. Each slide was sprayed for 10 seconds and allowed to remain in contact for 10 minutes. The subject disinfectant inactivated the virus as summarized below.

#### Lot #1, 12002B

Virus Disinfectant	Virus+ Disinfectant				Virus Control				Cytotoxicity Control			
10 <sup>0</sup>	-	-	-	-	+	+	+	+	-	-	-	-
10 <sup>-1</sup>	-	-	-	-	+	+	+	+	-	-	-	-
10 <sup>-2</sup>	-	-	-	-	+	+	+	+				
10 <sup>-3</sup>	-	-	-	-	+	+	+	+				
10 <sup>-4</sup>					+	-	+	+				
10 <sup>-5</sup>					-	-	-	-				

#### Lot #2, 12002B

Virus Disinfectant	Virus+ Disinfectant				Virus Control				Cytotoxicity Control			
10 <sup>0</sup>	T	T	T	T	+	+	+	+	T	T	T	T
10 <sup>-1</sup>	-	-	-	-	+	+	+	+	-	-	-	-
10 <sup>-2</sup>	-	-	-	-	+	+	+	+				
10 <sup>-3</sup>	-	-	-	-	+	+	+	+				
10 <sup>-4</sup>					+	-	+	+				
10 <sup>-5</sup>					-	-	-	-				

On September 12 and December 12, 1985 two lots of **Germ Blitz Disinfectant Spray** (Lot #1, 12002C and Lot #2, 12002C) were tested by Biolabs, Inc. against **Human Herpes Simplex Virus Type 2, MS Strain, ATCC #VR-540**. Each slide was sprayed for 10 seconds and allowed to remain in contact for 10 minutes. The subject disinfectant inactivated the virus as summarized below.

#### Lot #1, 12002C

Virus Disinfectant	Virus+ Disinfectant				Virus Control				Cytotoxicity Control			
10 <sup>0</sup>	T	T	T	T	+	+	+	+	T	T	T	T
10 <sup>-1</sup>	-	-	-	-	+	+	+	+	-	-	-	-
10 <sup>-2</sup>	-	-	-	-	+	+	+	+				
10 <sup>-3</sup>	-	-	-	-	+	+	+	+				
10 <sup>-4</sup>					+	-	+	-				
10 <sup>-5</sup>					-	-	-	-				

#### Lot #2, 12002C

Virus Disinfectant	Virus+ Disinfectant				Virus Control				Cytotoxicity Control			
10 <sup>0</sup>	T	T	-	T	+	+	+	+	-	-	-	-
10 <sup>-1</sup>	-	-	-	-	+	+	+	+	-	-	-	-
10 <sup>-2</sup>	-	-	-	-	+	+	+	+				
10 <sup>-3</sup>	-	-	-	-	+	+	+	+				
10 <sup>-4</sup>					+	+	+	+				
10 <sup>-5</sup>					+	-	-	+				

On February 12, 1988 two lots of **Germ Blitz Disinfectant Spray** (E7338 and E7275) were tested, with 10% organic soil load, by Gibraltar Biological Laboratories, Inc. Fairfield, NJ against **HIV-1 (AIDS) virus**. Each slide was sprayed for 3 to 4 seconds from a distance of 6 to 8 inches and allowed to remain in contact for 10 minutes at 20 to 25°C. The subject disinfectant inactivated the virus as summarized below.

Virus Disinfectant	Virus Disinfectant				Virus Control				Toxicity Control			
10 <sup>-1</sup>	T	T	T	T	+	+	+	+	T	T	T	T
10 <sup>-2</sup>	0	0	0	0	+	+	+	+	0	0	0	0
10 <sup>-3</sup>	0	0	0	0	+	+	+	+	0	0	0	0
10 <sup>-4</sup>	0	0	0	0	+	+	+	+	0	0	0	0
10 <sup>-5</sup>					+	+	+	+				
10 <sup>-6</sup>					0	0	0	0				

T = Toxic

+ = Virus Recovered

0 = No Virus Recovered

On April 13, 1988 two lots of **Germ Blitz Disinfectant Spray** (E7338 and E8062) were tested, with 5% organic soil load, by Gibraltar Biological Laboratories against **Mycobacterium tuberculosis var bovis (BCG)**. Each slide was sprayed for 2 to 3 seconds from a distance of 6 to 8 inches and allowed to remain in contact for 10 minutes at 20°C. The subject disinfectant inactivated the organism as summarized below.

E7338	E8062
0/10	0/10

Number of positive/total carriers

On April 16, 1988 three lots of **Germ Blitz Disinfectant Spray** (E7338, E7275 and E8062) were tested, with 5% organic soil load, by Gibraltar Biological Laboratories against **Pseudomonas aeruginosa ATCC 15442**, **Staphylococcus aureus ATCC 6538** and **Salmonella choleraesuis ATCC 10708**. Each slide was sprayed until wet from a distance of 6 to 8 inches and allowed to remain in contact for 10 minutes at 20 to 25°C. The subject disinfectant inactivated the organisms as summarized below.

Test Organism	Lot Number		
	E7338	E7275	E8062
<i>P. aeruginosa</i> ATCC 15442	0/60	0/60	0/60
<i>S. aureus</i> ATCC 6438	0/60	0/60	0.60
<i>S. choleraesuis</i> ATCC 10708	0/60	0/60	0/60

Number of positive/total carriers

On June 1, 1988 two lots of **Germ Blitz Disinfectant Spray** (E7338 and #7275) were tested, with 5% organic soil load, by Gibraltar Biological Laboratories against **Influenza A (Hong Kong) virus**. Each slide was sprayed until wet (2ml) and allowed to remain in contact for 10 minutes at 20 to 25°C. The subject disinfectant inactivated the virus as summarized below.

Virus Disinfectant	Virus Disinfectant				Virus Control				Toxicity Control			
10 <sup>-1</sup>	T	T	T	T	T	T	T	T	T	T	T	T
10 <sup>-2</sup>	0	0	0	0	+	+	+	+	0	0	0	0
10 <sup>-3</sup>	0	0	0	0	+	+	+	+	0	0	0	0
10 <sup>-4</sup>	0	0	0	0	+	+	+	+				
10 <sup>-5</sup>	0	0	0	0	+	+	+	+				
10 <sup>-6</sup>	0	0	0	0	+	+	+	+				
10 <sup>-7</sup>	0	0	0	0	+	+	+	+				

T = Toxic

+ = Virus Recovered

0 = No Virus Recovered

On June 15, 1988 two lots of **Germ Blitz Disinfectant Spray** (E7275 and E7338) were tested, with 5% organic soil load, by Gibraltar Biological Laboratories against **Trichophyton mentagrophytes ATCC 9972**. Each slide was sprayed until wet from a distance of 6 to 8 inches and allowed to remain in contact for 10 minutes at 20 to 25°C. The subject disinfectant inactivated the organism as summarized below.

E7275	E7338
0/10	0/10

Number of positive/total carriers

On August 1, 1988 two lots of **Germ Blitz Disinfectant Spray** (E7275 and E8062) were tested, with 5% organic soil load, by Gibraltar Biological Laboratories against **Aspergillus niger ATCC 16404**. Each slide was sprayed until wet from a distance of 6 to 8 inches and allowed to remain in contact for 10 minutes at 20 to 25°C. The subject disinfectant inactivated the organism as summarized below.

E7275	E8062
0/10	0/10

Number of positive/total carriers

On September 12, 1989 two lots of **Germ Blitz Disinfectant Spray** (8846 and 8911) were tested, with 5% organic soil load, by Gibraltar Biological Laboratories, Inc. against **Polio Virus Types 1 and 2**. Each slide was sprayed until wet and allowed to remain in contact for 10 minutes at 20-25°C. The subject disinfectant inactivated the viruses as summarized below.

Virus/Disinfectant conc./conc.	Virus Disinfectant				Virus Control				Toxicity Control			
	T	T	T	T	+	+	+	+	T	T	T	T
$10^{-2}/10^{-1}$	T	T	T	T	+	+	+	+	T	T	T	T
$10^{-3}/10^{-2}$	0	0	0	0	+	+	+	+	0	0	0	0
$10^{-4}/10^{-3}$	0	0	0	0	+	+	+	+	0	0	0	0
$10^{-5}/10^{-4}$	0	0	0	0	+	+	+	+				
$10^{-6}/10^{-5}$	0	0	0	0	+	+	+	+				
$10^{-7}/10^{-6}$	0	0	0	0	0	+	+	+				

T = Toxic

+ = Virus Recovered

0 = No Virus Recovered

During the period August 26 through September 30, 1998 two lots of **Germ Blitz Disinfectant Spray** (A 98216015-N and A 98173015-N) were tested by Hill Top Research, Inc., Miami, OH against **Methicillin-resistant Staphylococcus aureus ATCC 33591**. Each slide was sprayed for 3 to 4 seconds, until thoroughly wet, from a distance of 6 to 8 inches and allowed to remain in contact for 10 minutes at ambient room temperature. The subject disinfectant inactivated the organism as summarized below.

Test Date	Lot A 98216015-N	Lot A 98173015-N
08/26/98	1/10	0/10
09/28/98	0/10	NT
09/30/98	0/10	NT

Number of positive/total carriers

NT = Not Tested

During the period August 31 through September 2, 1998 two lots of **Germ Blitz Disinfectant Spray** (A 98216015-N and A 98173015-N) were tested by Hill Top Research against **Vancomycin-resistant *Enterococcus faecalis* ATCC 51299**. Each slide was sprayed for 3 to 4 seconds, until thoroughly wet, from a distance of 6 to 8 inches and allowed to remain in contact for 10 minutes at ambient room temperature. The subject disinfectant inactivated the organism as summarized below.

Lot A 98216015-N	Lot A 98173015-N
0/10	0/10

Number of positive/total carriers

On October 6, 1998 two lots of **Germ Blitz Disinfectant Spray** (E8210 and E8251) were tested by Gibraltar Biological Laboratories against ***Pseudomonas aeruginosa* ATCC 15442**, ***Staphylococcus aureus* ATCC 6538** and ***Salmonella choleraesuis* ATCC 10708**. This study was a confirmatory efficacy study to support an alternate formulation. Each slide was sprayed until wet, from a distance of 6 to 8 inches, and allowed to remain in contact for 10 minutes. The subject disinfectant inactivated the organisms as summarized below.

Organism	E8210	E8251
<i>P. aeruginosa</i>	0/10	0/10
<i>S. aureus</i>	0/10	0/10
<i>S. choleraesuis</i>	0/10	0/10

Number of positive/total carriers

On October 6, 1998 two lots of **Germ Blitz Disinfectant Spray** (12081A and 12081) were tested by Gibraltar Biological Laboratories against ***Pseudomonas aeruginosa* ATCC 15442**, ***Staphylococcus aureus* ATCC 6538** and ***Salmonella choleraesuis* ATCC 10708**. This study was a confirmatory efficacy study to support another alternate formulation. Each slide was sprayed until wet, from a distance of 6 to 8 inches, and allowed to remain in contact for 10 minutes. The subject disinfectant inactivated the organisms as summarized below.

Organism	12081A	12081
<i>P. aeruginosa</i>	0/10	0/10
<i>S. aureus</i>	0/10	0/10
<i>S. choleraesuis</i>	0/10	0/10

Number of positive/total carriers

**EPA-Accepted Label Claims**  
**December 27, 2001 EPA Stamped Accepted Label**

**Kills** *Aspergillus niger* ATCC 16404, Human Herpes Simplex Virus Type 1 ATCC VR-733F and Type 2 ATCC VR-540, Human Immunodeficiency Virus Type 1 [HIV-1 (AIDS virus)], Influenza A2/Hong Kong Virus, Methicillin-resistant *Staphylococcus aureus* ATCC 33591, *Mycobacterium tuberculosis* var *bovis* (BCG), Polio Virus Types 1 and 2, *Pseudomonas aeruginosa* ATCC 15442, *Salmonella choleraesuis* ATCC 10708, *Staphylococcus aureus* ATCC 6538, *Trichophyton mentagrophytes* ATCC 9972 and Vancomycin-resistant *Enterococcus faecalis* ATCC 51299 on hard, nonporous, inanimate environmental surfaces.