





4. Erduran Laboratories, Cyprus
5. New Zealand Food Safety Authority
6. New Zealand Plant & Food Laboratory
7. New Zealand Environmental Protection Authority Approval (2)
8. Elan Food lab. Nicosia, Cyprus

The following information is important when understanding the efficacy of the product.

(1) The toxicological data indicates that this product and the active ingredient possess very low toxicity. This is important because most disinfectants that are currently used in either animal or human environments have moderate to high toxicity and extreme care must be exercised when these products are used. The lack of any significant toxicological properties of PATH-AWAY ANTI-PATHOGENIC SOLUTION® is also impressive when one views the efficacy data where extremely small concentrations of the product can be used with marked beneficial results.

(2) In view of the reports discussed, the wide spectrum of activity that PATH-AWAY ANTI-PATHOGENIC SOLUTION® offers (antiviral, antibacterial, both gram- and gram+, antimycotic and antiprotozoan) will undoubtedly aid in its acceptability.

(3) The fact that this product has a very pleasant aroma will aid in the overall acceptability. When used in the laboratory, comments pertaining to the "fresh" smell have been numerous. This may be considered a subtle point however, we feel that it is important.

Attached are some of the recent tests conducted and an up to date list of fungi, bacteria, yeasts and viruses that the PATH-AWAY ANTI-PATHOGENIC SOLUTION® has proven efficacy on.

***PATH-AWAY ANTI-PATHOGENIC SOLUTION® is specifically formulated for various pathogens with the MIC designated for proper efficacy by our expert staff of scientists.***

Any additional items not on this list can be evaluated and a phone call to our ☒ office at ☐☐☐☐☐☐☐☐ will generate a quote for you.

Most respectfully

*Arthur V. Martin, President*

Arthur V. Martin, President  
Principal Research Scientist

## Additional Test Organisms as of 1 JUNE, 2016

Organism	Origin	Strain #	< 5 Min Kill
Aerobacter aerogenes	CITM	413	Yes
Alcaligenes faecalis	A		Yes
Brucella abortus	NCTC	8226	Yes
Brucella melitensis	A		Yes
Brucella intermedia	A		Yes
Brucella suis	A		Yes
Cloaca cloacae	NCTC	8155	Yes
Escherichia coli	NCTC	86	Yes
Escherichia coli	ATCC	9663	Yes
<b>Escherichia coli</b>	NCTC	9001	
Haemophilus influenza	A		Yes
Klebsiella edwardsii	NCTC	7442	Yes
Klebsiella aerogenes	NCTC	8172	Yes
Klebsiella pneumoniae	Isolate		Yes
Legionella pneumoniae	Isolate		Yes
Loefflerella mallei	NCTC	9674	Yes
Loefflerella pseudomallei	NCIB	10230	Yes
Moraxella duplex	A		Yes
Moraxella glucidolytica	A		Yes
Neisseria catarrhalis	NCTC	3622	Yes
Pseudomonas capacia	C-175		Yes
Pasteurella septica	NCTC	948	Yes

Pasteurella pseudotuberculosis	<b>C-G</b>		<b>Yes</b>
Proteus vulgaris	<b>NCTC</b>	<b>8313</b>	<b>Yes</b>
Proteus mirabilis	<b>A</b>		<b>Yes</b>
Pseudomonas aeruginosa	<b>NCTC</b>	<b>1999</b>	<b>Yes</b>
Pseudomonas aeruginosa	<b>ATCC</b>	<b>12055</b>	<b>Yes</b>
Pseudomonas fluorescens	<b>NCTC</b>	<b>4755</b>	<b>Yes</b>
Salmonella choleraesuis			<b>Yes</b>
Salmonella enteritidis	<b>A</b>		<b>Yes</b>
Salmonella gallinarum			<b>Yes</b>
Salmonella typhimurium	<b>NCTC</b>	<b>5710</b>	<b>Yes</b>
Salmonella typhi	<b>NCTC</b>	<b>8384</b>	<b>Yes</b>
Salmonella paratyphi A	<b>NCTC</b>	<b>5322</b>	<b>Yes</b>
Salmonella paratyphi B	<b>NCTC</b>	<b>3176</b>	<b>Yes</b>
Salmonella pullorum	<b>ATCC</b>	<b>9120</b>	<b>Yes</b>
Serratia marcescens	<b>A</b>		<b>Yes</b>
Shigella flexneri	<b>NCTC</b>	<b>8192</b>	<b>Yes</b>
Shigella sonnei	<b>NCTC</b>	<b>7420</b>	
Shigella dysenteriae	<b>NCTC</b>	<b>2249</b>	<b>Yes</b>
Vibrio cholerae	<b>A</b>		<b>Yes</b>
Vibrio eltor	<b>NCTC</b>	<b>8457</b>	<b>Yes</b>

<b>Fungi and Yeasts</b>	<b>Origin</b>	<b>Strain #</b>	<b>&lt; 5 Min Kill</b>
Acremonium sp	A		Yes
Alternaria sp.	A		Yes
Arthrinium sp	A		Yes
Acospores sp	A		Yes
Aspergillus niger	ATCC	6275	Yes
Aspergillus fumigatis	ATCC	9197	Yes
Aureobasidium sp.	A		Yes
Basidiospores sp.	A		Yes
Beauveria sp.	A		Yes
Bipolasis dreschlera	A		Yes
Botrytis sp.	A		Yes
Calcarisporium sp.			Yes
Candida albicans	A		Yes
Candida albicans	ATCC	10259	Yes
Cercospora sp.	A		Yes
Chaetomium sp.	A		Yes
Chromelosporium sp.	A		Yes
Curvularia sp.	A		Yes
Drechlera group	A		Yes
Epococcum sp			Yes
Epidermmophyton floccosum	ATCC	10227	Yes
Exiophiala sp	A		Yes
Fusarium sp.	A		Yes
Geotrichum sp.	A		Yes
Keratinomyces	A (ajelloi)		Yes

Lasiodipolodia theobromae	A		Yes
Memmnoiella sp.	A		Yes
Microstroma sp.	A		Yes
Monilia albicans	A		Yes
Mucor sp.	A		Yes
Myrothecium sp.	A		Yes
Nigrospora sp.	A		Yes
Nodulisporium sp.	A		Yes
Oidium sp.	A		Yes
Paecilomyces sp.	A		Yes
Penicillium sp.	A		Yes
Periconia sp.	A		Yes
Peziza sp.	A		Yes
Phoma sp.	A		Yes
Pithomyces sp.	A		Yes
Polythrincium sp	A		Yes
Rhizopus sp.	A		Yes
Saccharomyces cerevisiaq	A		Yes
Saccharomyces sp.	A		Yes
Schizophyllum sp.	A		Yes
Scopulariopsis sp.	A		Yes
Spegazzina sp.	A		Yes
Sporothrix sp.	A		Yes
Sporotrichum sp.	A		Yes
Stachybotrys chartarum atra	A		Yes
Stachybotrys sp.	A		Yes
Stemphylium sp.	A		Yes
Taeniolella sp			Yes
Tetraploa sp.			Yes
Torula sp.			Yes
Trichoderma sp.			Yes
Tricholcladium sp.			Yes
Trichosporon sp.			Yes
Trichophyton	ATCC (mentagrophytes)	9533	Yes

Trichophyton rubrum	A	Yes
Trichophyton tonsurans	A	Yes
Tritiachium sp	A	Yes
Ulocladium sp	A	Yes
Ustilago sp.	A	Yes
Wallemia sp.	A	Yes
Zygosporium sp.	A	Yes


Gram + Bacteria	Origin	Strain #	< 5 Min Kill
Bacillus cerues var. mycoies	A		Yes
Bacillus cereus	A		Yes
Bacillus megatherium	A		Yes
Bacillus subtilis	NCTC	8326	Yes
Clostridium botulinum	NCTC	3805	Yes
Clostridium difficile	NCTC		Yes
Clostridium tetani	NCTC	9571	Yes
Cornybacterium diptheriae	NCTC	6917	Yes
Cornybacterium	A (diptheriae)		Yes



Cornybacterium diphtheriae	<b>NCTC</b>	<b>3984</b>	<b>Yes</b>
Cornybacterium minutissium	<b>ATCC</b>	<b>6501</b>	<b>Yes</b>
Diplococcus pneumoniae	<b>NCTC</b>	<b>7465</b>	<b>Yes</b>
Lactobacillus arabinosus	<b>ATCC</b>	<b>8014</b>	<b>Yes</b>
Lactobacillus casei	<b>CITM</b>	<b>707</b>	<b>Yes</b>
Listeria monocytogenes	<b>atcc</b>	<b>15313</b>	<b>Yes</b>
Mycobacterium phlei	<b>A</b>		<b>Yes</b>
Mycobacterium smegmatis	<b>NCTC</b>	<b>8152</b>	<b>Yes</b>
Mycobacterium tuberculosis	<b>A</b>		<b>Yes</b>
Sarcina lutea	<b>NCTC</b>	<b>196</b>	<b>Yes</b>
Saecena ureae	<b>ATCC</b>	<b>6473</b>	<b>Yes</b>
Staphylococcus aureas	<b>NCTC</b>	<b>7447</b>	<b>Yes</b>
Staphylococcus aureas	<b>NCTC</b>	<b>4163</b>	<b>Yes</b>
Staphylococcus aureas	<b>NCTC</b>	<b>6571</b>	<b>Yes</b>
Staphylococcus aureas	<b>NCTC</b>	<b>6966</b>	<b>Yes</b>
Staphylococcus aureas	<b>ATCC</b>	<b>13709</b>	<b>Yes</b>
Staphylococcus aureas	<b>ATCC</b>	<b>6358</b>	<b>Yes</b>
Staphylococcus albus	<b>NCTC</b>	<b>7292</b>	<b>Yes</b>
Staphylococcus albus	<b>C-G</b>		<b>Yes</b>
Streptococcus	<b>Isolate</b>		<b>Yes</b>

Streptococcus agalactiae	<b>A</b>	<b>8181</b>	<b>Yes</b>
Streptococcus faecalis	<b>NCTC</b>	<b>8619</b>	<b>Yes</b>
Streptococcus faecalis		<b>ATCC</b>	<b>Yes</b>
Streptococcus haemolyticus		<b>10541</b>	<b>Yes</b>
Streptococcus pyogenes	<b>NCTC</b>	<b>8322</b>	<b>Yes</b>
Streptococcus viridans	<b>Isolate</b>		<b>Yes</b>

### Additional Items Tested

<b>Item</b>	<b>Origin</b>	<b>Srrain #</b>	<b>&lt; 5 Min Kill</b>
Avian influenza	<b>A</b>		Yes
Burrelia	<b>A</b>		Yes
Campylobacter jejuni	<b>A</b>		Yes
Chlamydia trachomatis	<b>A</b>		Yes
Coccidiosis	<b>A</b>		Yes
Collyricium Faba	<b>A</b>		Yes
Entamoeba Histolytica	<b>A</b>		Yes
Erysipenas	<b>A</b>		Yes
Galisepticum	<b>A</b>		Yes
Giardia lamblia	<b>A</b>		Yes
H1N1 Virus	<b>A</b>		Yes
Hawaii virus	<b>A</b>		Yes

