

# Certificate of Analysis



Customer: **Paul Ward – J P Filpak**  
 Product: **Alcoholic Hard Surface Liquid**  
 Batch: **001**      Work Order: **788**      Sample: **S0704019**  
 Test Date: **11 April 2007**      Quote: **Q320-1**

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## Test Method: BS EN 1276

Organism	Validation Test				Bacterial Test Suspension (cfu/ml)	Test Procedure at Working Concentration	
	Bacterial Suspension	Experimental Conditions	Neutraliser Toxicity	Dilution Neutralisation		V <sub>C</sub>	N <sub>a</sub>
<i>E. hirae</i> ATCC 10531	V <sub>C</sub> 42,39 N <sub>v</sub> 405	V <sub>C</sub> 33,36 A 345	V <sub>C</sub> 37,40 B 385	V <sub>C</sub> 38,35 C 365	10 <sup>-6</sup> 233.5 10 <sup>-7</sup> 20.5 n 2.31 x 10 <sup>8</sup>	V <sub>C</sub> N <sub>a</sub> R	<1.5 x 10 <sup>2</sup> <1.5 x 10 <sup>2</sup> > Log 5
<i>P. aeruginosa</i> ATCC 9027	V <sub>C</sub> 59,61 N <sub>v</sub> 600	V <sub>C</sub> 55,54 A 545	V <sub>C</sub> 62,57 B 595	V <sub>C</sub> 58,30 C 440	10 <sup>-6</sup> 260.5 10 <sup>-7</sup> 30 n 2.64 x 10 <sup>8</sup>	V <sub>C</sub> N <sub>a</sub> R	<1.5 x 10 <sup>2</sup> <1.5 x 10 <sup>2</sup> > Log 5
<i>L. monocytogenes</i> ATCC 3512	V <sub>C</sub> 121, 129 N <sub>v</sub> 1250	V <sub>C</sub> 127, 125 A 1260	V <sub>C</sub> 130, 126 B 1280	V <sub>C</sub> 129, 127 C 1280	10 <sup>-6</sup> 299.5 10 <sup>-7</sup> 28.5 n 2.98 x 10 <sup>8</sup>	V <sub>C</sub> N <sub>a</sub> R	<1.5 x 10 <sup>2</sup> <1.5 x 10 <sup>2</sup> > Log 5
<i>S. typhimurium</i> ATCC 14028	V <sub>C</sub> 251, 248 N <sub>v</sub> 2495	V <sub>C</sub> 252, 253 A 2525	V <sub>C</sub> 247, 250 B 2485	V <sub>C</sub> 255, 251 C 2530	10 <sup>-6</sup> 328 10 <sup>-7</sup> 41 n 3.35 x 10 <sup>8</sup>	V <sub>C</sub> N <sub>a</sub> R	0.5 <1.5 x 10 <sup>2</sup> > Log 5
<i>S. aureus</i> ATCC 6538	V <sub>C</sub> 33, 31 N <sub>v</sub> 320	V <sub>C</sub> 29, 31 A 300	V <sub>C</sub> 30, 33 B 315	V <sub>C</sub> 34, 30 C 320	10 <sup>-6</sup> 270.5 10 <sup>-7</sup> 23.5 n 2.67 x 10 <sup>8</sup>	V <sub>C</sub> N <sub>a</sub> R	<1.5 x 10 <sup>2</sup> <1.5 x 10 <sup>2</sup> > Log 5

N = Neutralisation method    V<sub>C</sub> Viable Counts      R = Log Reduction

Pass Criteria :                      BSEN 1276: >Log 5 (1.0 x 10<sup>5</sup>)

Validation Criteria: Meet the requirements of the British Standard.

Conclusion:                      A greater than Log 5 reduction was obtained for *Enterococcus Hirae*, *Pseudomonas Aeruginosa*, *Listeria monocytogenes*, *Salmonella Typhurium* and *Staphylococcus Aureus* after 5 minutes contact with sample.

  
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 LARISSA TAYLOR  
 Technical Director

DATE: 26 April 07.