



# TEST REPORT

1. No : CT16-042519

2. Client

○ Name : H&CARE., LTD.

○ Address : 2710-24, Jungbu-daero, Neungseo-myeon, Yeosu-si, Korea

Reissuance (R1)

Date : 2016.04.29

3. Date of Test : 2016.04.07 ~ 2016.04.29

4. Use of Report : Quality Control

5. Test Sample : (Portable hydrogen mist)blue water-500

6. Test Method

(1) Client's requirement method



Affirmation	Tested By	<b>JKS</b>	Technical Manager	<i>Sangbok</i>
	Name : Kye Seung Chang		Name : Sang Bok Bae	
Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products.				

2016.04.29

**Korea Conformity Laboratories**

President

Kyung Sik Ki

Address : #805, 1' VALLEY Gunpo, 149, Gongdan-ro, Gunpo-si, Gyeonggi-do, 435-010, Korea 82-31-389-9100

Result Inquiry : The Center of Green Complex Technologies 82-31-389-9184



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## 7. Test Results

Test Items		Test Results			Test method	Testing Environment
		Early Conc. (CFU/mL)	After 4 min Conc. (CFU/mL)	Reduction rate of bacteria(%)		
Antibacterial test for <i>Escherichia coli</i>	BLANK	$1.5 \times 10^4$	$1.5 \times 10^4$	-	Client's requirement method	(37.0 ± 0.1) °C (32.4 ± 0.2) % R.H.
	(Portable hydrogen mist) blue water-500	$1.5 \times 10^4$	< 10	99.9		
Antibacterial test for <i>Pseudomonas aeruginosa</i>	BLANK	$1.7 \times 10^4$	$1.7 \times 10^4$	-		
	(Portable hydrogen mist) blue water-500	$1.7 \times 10^4$	< 10	99.9		
Antibacterial test for <i>Salmonella typhimurium</i>	BLANK	$1.6 \times 10^4$	$1.6 \times 10^4$	-		
	(Portable hydrogen mist) blue water-500	$1.6 \times 10^4$	< 10	99.9		
Antibacterial test for <i>Candida albicans</i>	BLANK	$1.3 \times 10^4$	$1.3 \times 10^4$	-		
	(Portable hydrogen mist) blue water-500	$1.3 \times 10^4$	< 10	99.9		

※ CFU : Colony Forming Unit

※ Test strain : *Escherichia coli* ATCC 25922

*Pseudomonas aeruginosa* ATCC 15442

*Salmonella typhimurium* IFO 14193

*Candida albicans* ATCC 10231

※ Sample : (Portable hydrogen mist)blue water-500

※ Client's requirement method

: Put water (20 mL) inoculated with the strain into client-provided sample. After operating the sample for 4 minutes, measure the reduction rate of bacteria.

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<Picture 1. *Escherichia coli* - BLANK (0 h)>



<Picture 2. *Escherichia coli* - (Portable hydrogen mist)  
blue water-500 (4 min)>



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<Picture 3. *Pseudomonas aeruginosa* - BLANK (0 h)>



<Picture 4. *Pseudomonas aeruginosa* - (Portable hydrogen mist)  
blue water-500 (4 min)>

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<Picture 5. *Salmonella typhimurium* - BLANK (0 h)>



<Picture 6. *Salmonella typhimurium* - (Portable hydrogen mist)  
blue water-500 (4 min)>

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<Picture 7. *Candida albicans* - BLANK (0 h)>



<Picture 8. *Candida albicans* - (Portable hydrogen mist)  
blue water-500 (4 min)>

----- End of Report -----