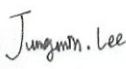





# TEST REPORT

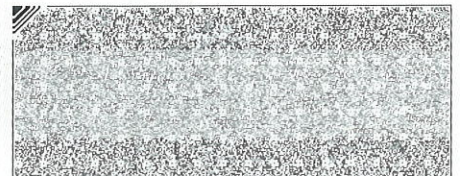
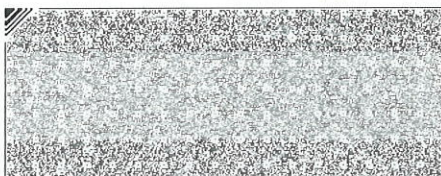
1. NO : CT19-110678E
2. Client
  - Name : Haenim CO.,LTD.
  - Address : 15, Saryeom-ro 21beon-gil, Seo-gu, Incheon, Republic of Korea
3. Date of Test : 2019.10.07 ~ 2019.11.06
4. Use of Report : Quality Control
5. Test Sample : Haenim UV LED Bottle Sterilizer
6. Test Method
  - (1) 의뢰자 제시방법

Affirmation	Tested By Name : Lee, Jung Min		Technical Manager Name : Kye Seung Chang	
This report is not accredited by KOLAS. 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. The results of using only a portion of this report cannot be guaranteed. The authenticity of this test report can be checked on KCL website(www.kcl.re.kr).				

2019. 11. 06

Korea Conformity Laboratories President Yoon, Kap Seok *Yoon, Kap Seok*

Result Inquiry : unit108, Industry-Academic Cooperation Foundation, Hankyong National University, 327, Jungang-ro, Anseong-si, Gyeonggi-do, 17579, Korea (82-31-389-9186)



# TEST REPORT

No : CT19-110678E

## 7. Test Results

Test Items		Test method	Test Results			Testing Environment
			Early Conc. (CFU/mL)	After 10 mins Conc. (CFU/mL)	Reduction rate (%)	
Antibacterial test : <i>Escherichia coli</i>	BLANK	Client's requirement method	$1.1 \times 10^4$	$1.1 \times 10^4$	-	(37.0 ± 0.2) °C
	Haenim UV LED Bottle Sterilizer		$1.1 \times 10^4$	< 10	99.9	

※ CFU : Colony Forming Unit

※ Test strain : *Escherichia coli* ATCC 8739

※ Sample : Haenim UV LED Bottle Sterilizer

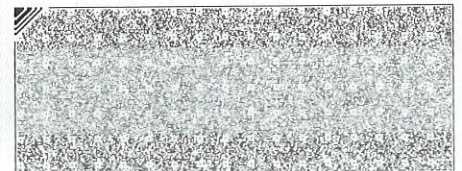
※ Client's requirement method

- Test time : 10 mins

- Measure the rate of bacterial reduction after the test strains have been inoculated in the center of the product and the product has been operated in UV mode for 10 minutes.

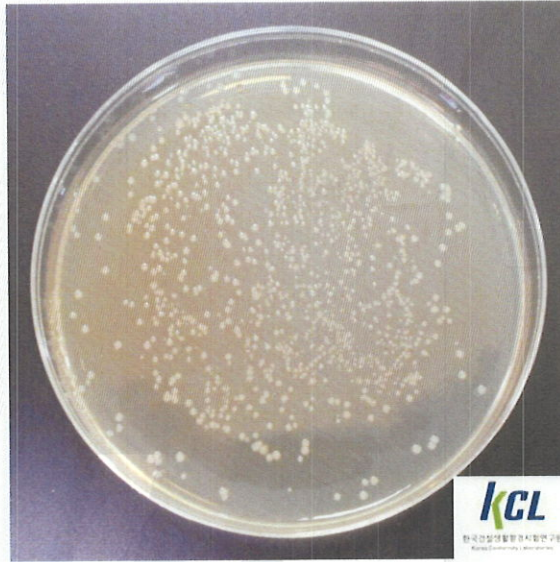
※ Inoculum preparation, Inoculation method, Assessment of Results : KCL-FIR-1002:2018 Mod.

※ Location : unit108, Industry-Academic Cooperation Foundation, Hankyong National University, 327, Jungang-ro, Anseong-si, Gyeonggi-do, 17579, Korea

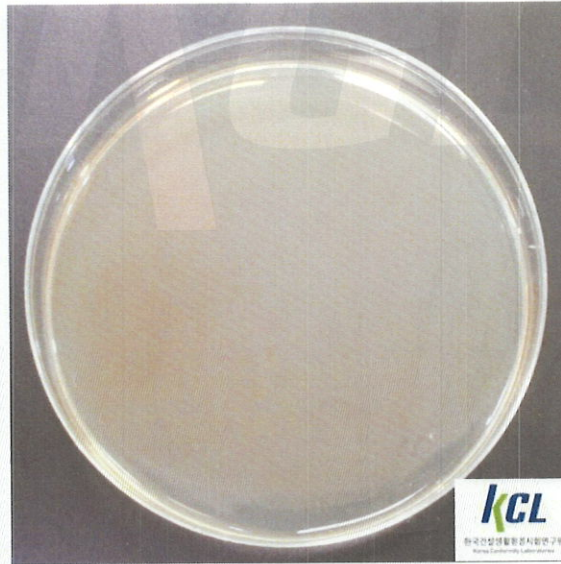


# TEST REPORT

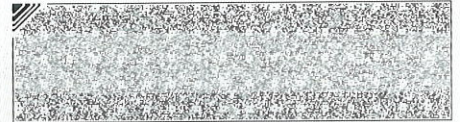
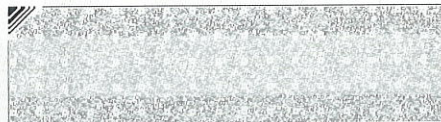
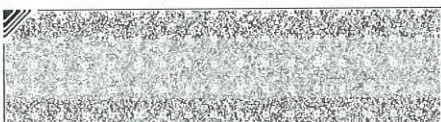
No : CT19-110678E



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



<Picture 2. *Escherichia coli* - Haenim UV LED Bottle Sterilizer (10 mins)>



# TEST REPORT

No : CT19-110678E



<Picture 3. Sample - Haenim UV LED Bottle Sterilizer>

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

