

Test report

Request No :	20L2102C03	Request date :	2020. 12. 21.
Report No :	KS120Y07902016	Issue date :	2020. 12. 28.
Company :	LED VirusKill A/S	Purpose of use :	Quality control
Address :	Agern Alle 5A, 2970 HØrsholm		
Person :	KARIN HORN		
Submit Company :			
Name of Sample :	puriZAP		

Test item	Test result
UV sterilizing power	Sample
UV exposed time	2 seconds
<i>Staphylococcus aureus</i> ATCC 6538	99.9
inoculum 1.2×10^5 CFU/mL	
<i>Escherichia coli</i> ATCC 8739	99.6
inoculum 1.8×10^5 CFU/mL	
<i>Klebsiella pneumoniae</i> ATCC 4352	99.9
inoculum 9.9×10^4 CFU/mL	

※ Test method

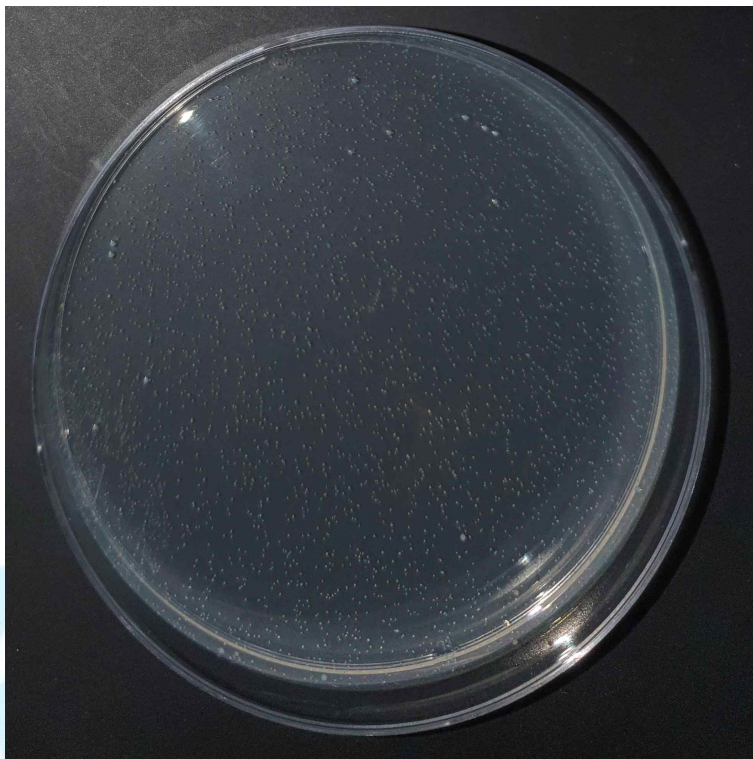
- After applying the diluted solution at a certain concentration on the petridish, the UV lamp was operated to confirm the sterilizing power.
- In the control group, the inoculum was without exposure to the UV lamp of the sterilizer and incubated at 35 ° C for 24 hours.
- In the test group, the inoculum was exposed to the UV lamp of the sterilizer for 2 seconds at a distance of 1.2 cm, and then incubated at 35 ° C. for 24 hr.
- The number of viable cells was measured by the flat plate method and the sterilizing power was expressed as a percentage according to the formula.
- $\text{sterilizing power(\%)} = (\text{Number of viable cells recovered from the control group} - \text{Number of viable cells recovered from the test group}) / \text{Number of viable cells recovered from the control group} \times 100$

Korea Standard Test Researcher

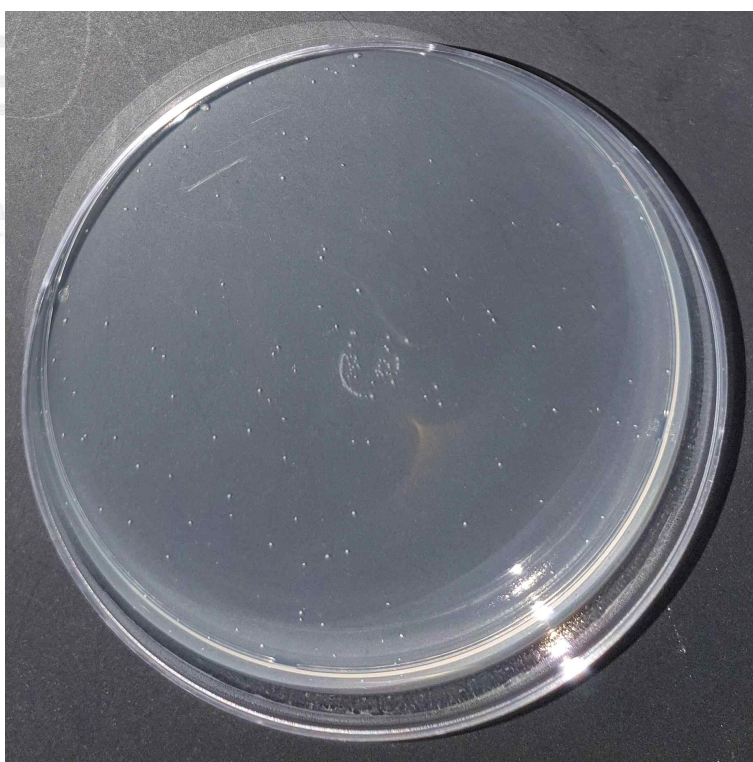


- Result picture -

ATCC 6538



< Control >

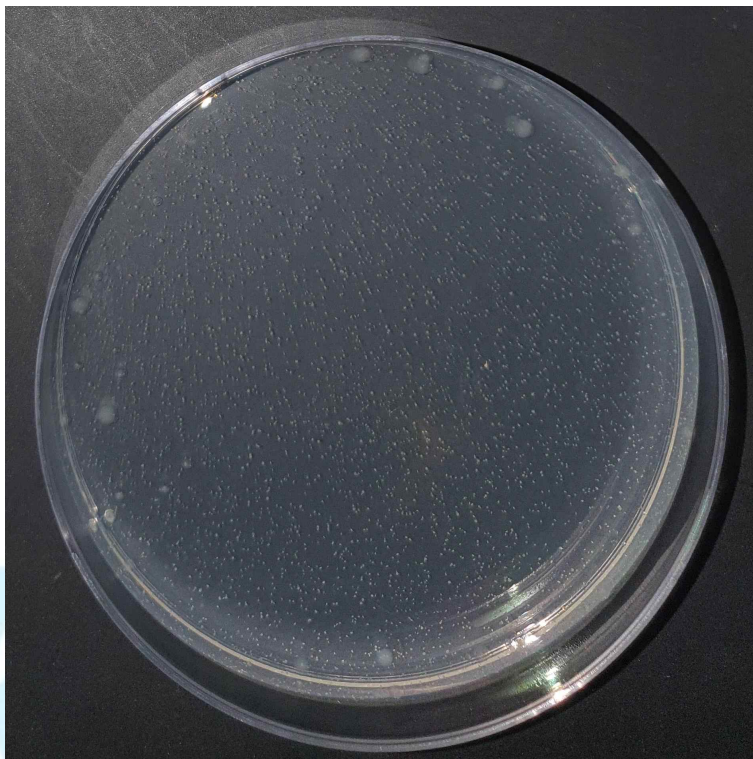


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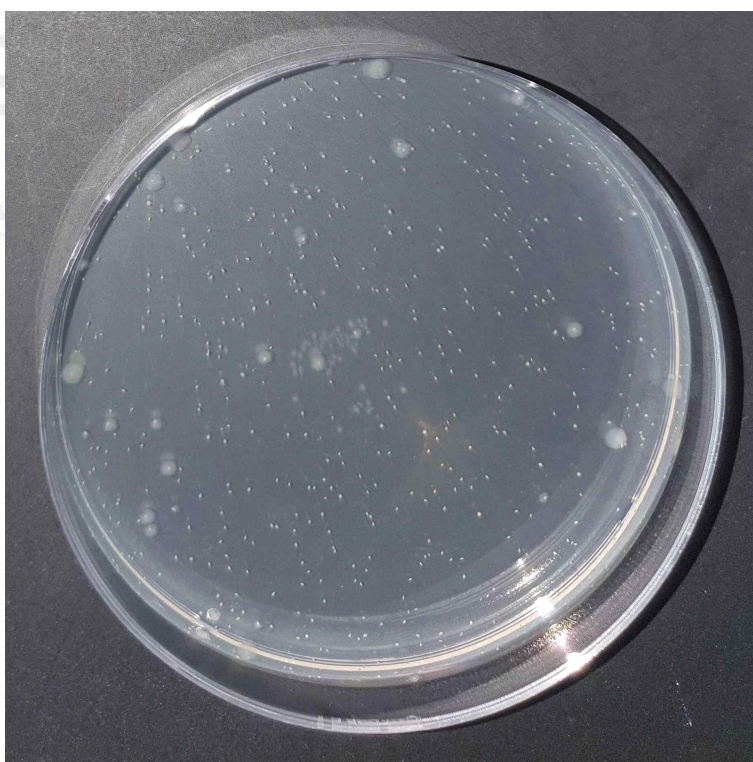
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- Result picture -

ATCC 8739



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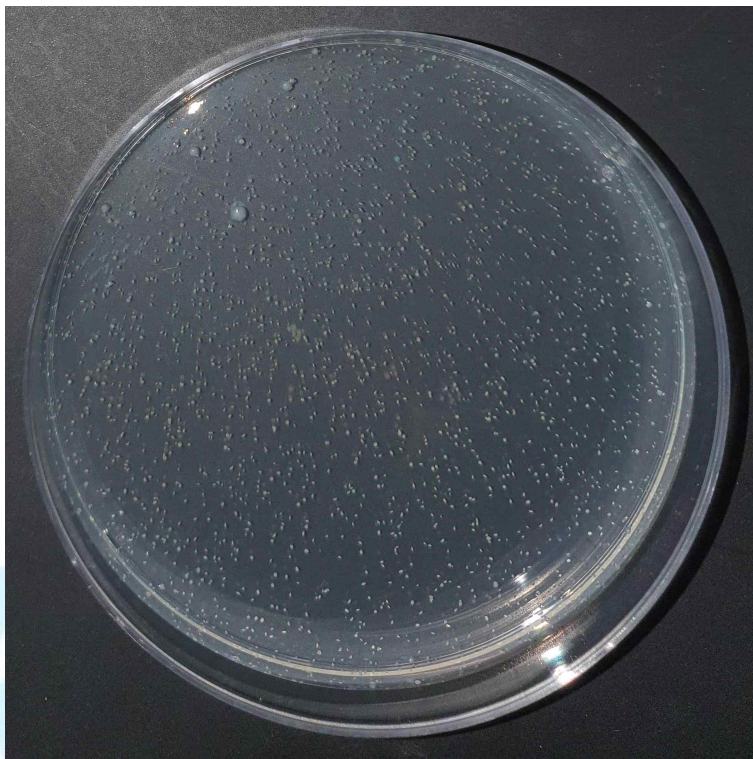


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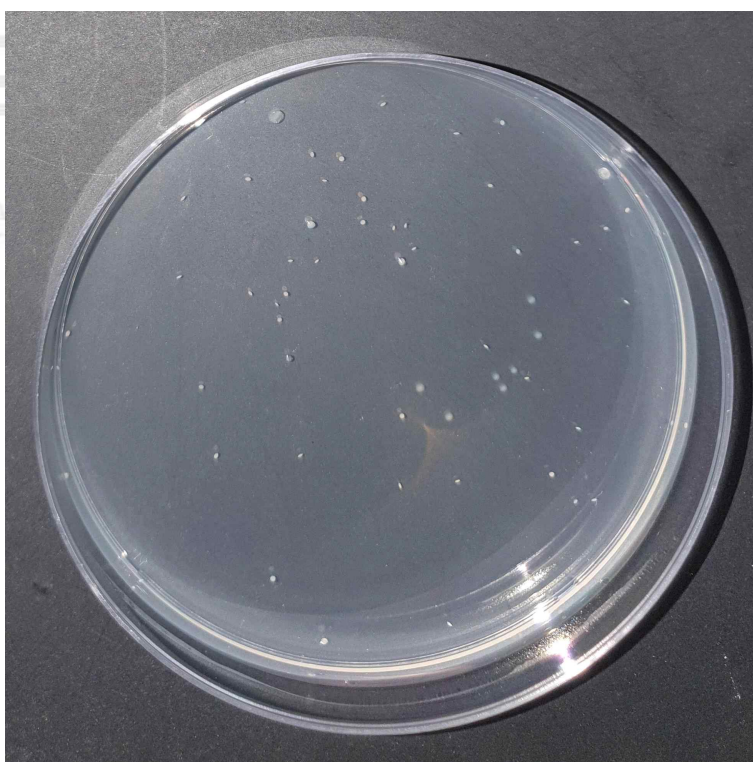
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- Result picture -

ATCC 4352



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- Sample picture -



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