



Report NO. : M61-191100956EN



TEST REPORT

SUPERLAB TESTING CENTER

CUSTOMER

Antari Lighting And Effects Ltd

No. 8, Ln. 231, Sec. 1, Nankan Rd., Luzhu Dist, Taoyuan City 338, Taiwan

Page 1 of 2

Sample name : FLD Disinfectant FOG LIQUID

Manufacturer : -

Manufacture Date : -

Lot number : -

Sample Condition : Room Temperature

Sample delivering : By applicant

Contact Person : Miss Yu

Phone Number : (03)322-5829#318

Sample expiry Date : -

Country of origin : -

Test sample packaging : as Appendix

Number of Samples : 1Piece

Report purpose : For Export 、Retail sale

----- The sample information provided above was confirmed by the customer -----

Sample Received : 2019/11/26

Date of Testing : 2019/11/27

Date of Report : 2019/12/23

Item (s)	Result (s)	Unit	Method	LOQ / LOD
Bactericidal Activities : <i>Escherichia coli</i>	>99.99	%	1. Refer to Japanese Industrial Standard (JIS) Z 2801 (2012) Antibacterial products - Test for antibacterial activity and efficacy. 2. Russel A. D., Hugo W. B., Ayliffe G. A. J. 2004. Principles and Practice of Disinfection, Preservation and Sterilization. Fourth Edition. Malden, MA : Blackwell Science. Chapter 7, p.223 ~ p.228.	—

----- Null below -----

Remark (s) :

- . This report is used only for providing the testing results of commissioned items, not for determining the legality of the product.
- . Bactericidal Activities: Please see the test appendix for detailed inspection results.
- . Annotation from customer requirement : FLD-01 FLD-02 FLD-04 FLD-05 FLD-06 FLD-10 FLD-20 FLD-200.
- . Please note if the tests do not involve sampling, then the test report is only responsible for the test sample provided by the customer. And the report is invalid if not presented in full and for reference only; it shall not be used for advertising, sales promotions, or notarial purposes. Also, when the target is below the limit of detection (LOD) or the limit of quantification (LOQ), the test results will be expressed as "Negative" or "ND" (Not detected).



Yueh-ting Tsai

Yueh-ting Tsai, Ph. D.
Approval Signatory



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Page 2 of 2

Sample name : FLD Disinfectant FOG LIQUID

Sample Condition : Room Temperature

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連結至台美安全家



Yueh-ting Tsai

Yueh-ting Tsai, Ph. D.
Approval Signatory



Appendix

The antimicrobial activities of test article (FLD Disinfectant FOG LIQUID) was provided by Antari Lighting And Effects Ltd against *Escherichia coli*. After 30 minutes, the result showed that the test group against *Escherichia coli* was >99.99% (Table 1).

1. Specimen information:

- 1.1 Client Specimen I.D: "FLD Disinfectant FOG LIQUID"
- 1.2 Specimen I.D: M61-191100956

2. Test method:

- 2.1 Test strains: *Escherichia coli*, ATCC 8739.
- 2.2 Test condition: 25 ± 2°C for 30 minutes.
- 2.3 Culture condition: 35 ± 2°C for 48 ± 2 hours.
- 2.4 Reference:
 - 2.4.1 Refer to JIS Z2801:2012.
 - 2.4.2 Russel A. D., Hugo W. B., Ayliffe G. A. J. 2004. Principles and Practice of Disinfection, Preservation and Sterilization. Fourth Edition. Malden, MA : Blackwell Science. Chapter 7, p.223 ~ p.228.
- 2.5 Grouping:
 - 2.5.1 Test group: FLD Disinfectant FOG LIQUID.
 - 2.5.2 Control group: 0.85% sterile saline.
- 2.6 Prepare the suspension of test bacteria, and the concentration was around 10⁷ CFU/mL.
- 2.7 Add 0.1 mL of bacteria suspension into 10 mL test and control group.
- 2.8 Incubated test and control group at 25 ± 2°C for 30 minutes.
- 2.9 The test group and control group were conducted for 10-fold serial dilution with sterile saline.
- 2.10 After serial dilution, each group were inoculated on appropriate medium. The medium were cultured under the test condition. The growths were observed and colony counts were recorded.
- 2.11 Calculation:

$$\text{Reduction rate (\%)} = \frac{(\text{Control group} - \text{Test group})}{\text{Control group}} \times 100\%$$

Appendix

3. Result:

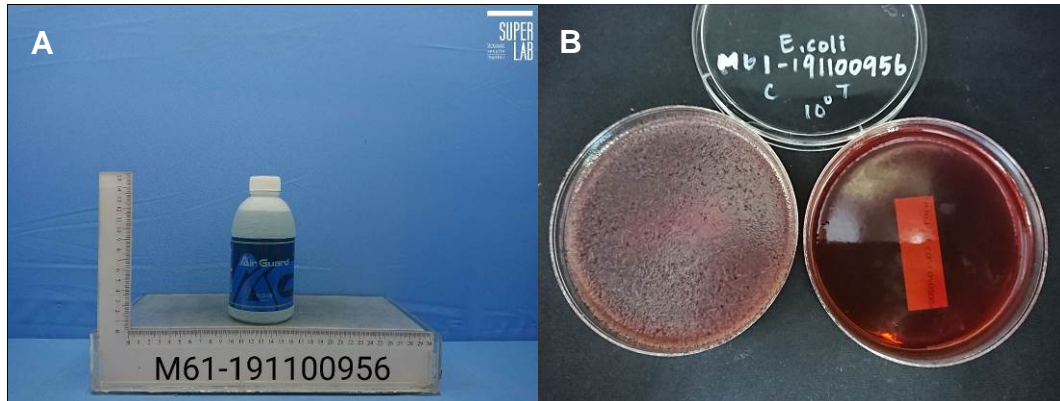


Figure 1. Result of test article (M61-191100956) against *Escherichia coli* for 30 minutes.

A. Test article.

B. Result of Control group and Test group against *Escherichia coli* for 30 minutes.

Table 1. Result of test group (M61-191100956) against *Escherichia coli* for 30 minutes.

Test strain	Inoculated concentration (CFU/mL)	The residual amount of bacteria (CFU/mL)		Rate (%)
		Control group	Test group	
<i>E. coli</i>	9.6×10^5	7.0×10^5	<5	>99.99