



財團法人食品工業發展研究所

生物資源保存及研究中心

Food Industry Research and Development Institute

Bioresource Collection and Research Center

新竹市食品路 331 號 <http://www.firdi.org.tw>

331, Shih-Pin Road, Hsinchu 300, Taiwan

TEL:+886-3-5223191 Fax:+886-3-5224172



委託試驗報告

TEST REPORT

委託者 Applicant : Fortrend Taiwan Scientific Corp

報告書號碼 Report No. : 2014CT128

取樣者 Sampler : Fortrend Taiwan Scientific Corp

收件日期 Date Received : 2014/04/11

樣品名稱 Sample Name: Liquid Diamond

簽發日期 Date Issued : 2014/04/28

包裝型態 Package Type :

樣品編號 Sample No. : 2014CT128

批號 Lot No. :

樣品狀態 Sample Status :

試驗項目 (Item)	結果 (Results)
Antimicrobial test	Results showed that amounts of <i>E. coli</i> BCRC 11634/ATCC 8739 on the Bare Glass and the sample with Liquid Diamond Coating were 7.31×10^3 CFU/cm ² and 8.06×10^1 CFU/cm ² , respectively, after incubation for 24 hr in light condition.

備註

Note :

1. 本分析結果，僅對委託者所送樣品負責。

The results in this report are valid only to the sample sent by the applicant.

2. 委託者所送樣品是否適用於人體(接觸、吸入、食用等)，非本試驗之範圍。

Whether the sample sent by the applicant can be applied to human in any way (contact, inhalation, ingestion, etc.) is beyond the scope of this test.

3. 本報告所載事項，僅做參考資料，若貴公司/單位擬做為廣告、公證或商業推銷用途，應經本所同意。

This report is for reference only, if it is used for advertisement, sales promotion, or notarial use, please consult FIRDI first.

簽發者：

Authorized Representative : _____



The Inhibition Test of “The sample with Liquid Diamond Coating” on *Escherichia coli* BCRC 11634

I. Abstract

This test was consigned by Fortrend Taiwan Scientific Corp. to determine the antimicrobial activity of “The sample with Liquid Diamond Coating” on *Escherichia coli* BCRC 11634/ATCC 8739.

The sample with Liquid Diamond Coating was inoculated with 1.03×10^4 CFU/cm² of *E. coli* BCRC 11634/ATCC 8739. Results showed that amounts of *E. coli* BCRC 11634/ATCC 8739 on the Bare Glass and the sample with Liquid Diamond Coating were 7.31×10^3 CFU/cm² and 8.06×10^1 CFU/cm², respectively, after incubation for 24 hr in light condition.

II. Background

Test No.: 2014CT128
 Sample: Liquid Diamond Coating
 Control: Bare Glass
 Pretreatment: wiped with 99% alcohol
 Light condition: illuminated distance 15 cm

III. Results

Table 1 shows the amounts of *Escherichia coli* BCRC 11634/ATCC 8739 after incubation for 24 hr in light condition on the Bare Glass and the sample with Liquid Diamond Coating.

Table 1. The amounts of *E. coli* BCRC 11634/ATCC 8739 on the control and the sample

Test	Amount of cells after incubation for 0 hr (CFU ¹ /cm ²)	Amount of cells after incubation for 24 hr in light condition (CFU/cm ²)	Amount of cell in Bare glass
Blank	1.13×10^4	1.03×10^5	
Bare Glass	1.03×10^4	7.31×10^3	
The sample with Liquid Diamond Coating	--- ²	8.06×10^1	

¹CFU: Colony Forming Unit; ²No entry.

Amount of cell in Liquid Diamond coating glass

**Fortrend Liquid Diamond coating glass
Bacteriostatic efficact over 99%**

