



# ISHIZUKA GLASS Co., Ltd.

## Advanced Glass Company

1880 Kawai-cho, Iwakura-shi, Aichi-ken 482-8510, JAPAN TEL:+81-587-37-3251 / FAX:+81-587-37-3230

12 August, 2015

Messrs. Co-Action Corp.

ISHIZUKA GLASS CO., LTD.  
Advanced Glass Company

### REPORT ON ANTI-MICROBIAL TEST RESULT

#### 1. Sample:

LDPE films for Green Wrapping Technology CO., LTD. on July 29th, 2015

No.	Sample
1.	Blank
2.	IONPURE JQ 0.2%

#### 2. Outline of test:

The test was executed in accordance with "JIS Z 2801-2010 (Antimicrobial products—Test for antimicrobial activity and efficacy)", on the special condition of n = 1.

Place tested at: Ishizuka Glass Co., LTD

<Bacteria used for test>

*Escherichia coli* NBRC3972  
*Staphylococcus aureus* NBRC12732



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### 3. Test result:

Table 1. Test result of Anti-microbial effect against *Escherichia coli*

Sample	Number of living bacteria per 1cm <sup>2</sup> of test sample		Anti-microbial activity value against control
	At Starting	After24 hours	
1. Blank	$6.9 \times 10^3$	$1.9 \times 10^6$	-----
2. IONPURE JQ 0.2%	$6.9 \times 10^3$	<6.3	>5.4
Control	$6.9 \times 10^3$	$1.8 \times 10^6$	

Table 2. Test result of Anti-microbial effect against *Staphylococcus aureus*

Sample	Number of living bacteria per 1cm <sup>2</sup> of test sample		Anti-microbial activity value against control
	At Starting	After24 hours	
1. Blank	$8.8 \times 10^3$	$5.6 \times 10^3$	-----
2. IONPURE JQ 0.2%	$8.8 \times 10^3$	<6.3	>2.9
Control	$8.8 \times 10^3$	$1.4 \times 10^5$	

### 4. Consideration:

Anti-microbial sample showed efficacy with  $\geq 2.0$  anti-microbial activity value against both *Escherichia coli* and *Staphylococcus aureus*.

ISHIZUKA GLASS CO., LTD.



Tomoshige Hasegawa  
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