



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

1 September, 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 "ISO 22196-2011 (Measurement of antibacterial activity on plastics and other non-porous surfaces) 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 ² of test sample		Anti-microbial activity value against control
	At Starting	After24 hours	
1. Blank	6.9×10^3	1.9×10^6	-----
2. IONPURE JQ 0.2%	6.9×10^3	<6.3	>5.4
Control	6.9×10^3	1.8×10^6	

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

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

久旺科技

ISHIZUKA GLASS CO., LTD.

Tomoshige Hasegawa
MANAGER