

ANTIMICROBIAL EFFICACY TEST RESULTS

1. Sample

No.	Sample	Information
1	Control Film	40mm x 40mm
2	Control Film	40mm x 40mm
3	Control Film	40mm x 40mm
4	RX Film	40mm x 40mm
5	RX Film	40mm x 40mm
6	RX Film	40mm x 40mm

2. Outline of Test: The test was executed in accordance with “JIS Z 2801.”

<bacteria used for test>

Escherichia coli ATCC #8739
 Staphylococcus aureus ATCC #6538

After inoculation with the above bacteria, the samples were incubated at 36 Degrees Celsius for 24 hours, at which point the live bacteria were counted using standard pour plate methods

3. Test Result:

Table 1. Test result of the antimicrobial effect against Staphylococcus aureus ATCC 6538

Sample	Sample	Number of Living Bacteria per Sample (40mm x 40mm)				Antimicrobial Efficacy (Must be >2.0)
		Initial	After 24 Hours	After 24 Hours Average	Reduction %	
1.	Control Film - 1	2.45 x 10 ⁵	2.85 x 10 ⁴	4.78 x 10 ⁴	N/A	N/A
2.	Control Film - 2	2.40 x 10 ⁵	7.75 x 10 ⁴			
3.	Control Film - 3	2.80 x 10 ⁵	3.75 x 10 ⁴			
4.	RX Film - 1	2.45 x 10 ⁵	2.00 x 10 ¹	1.33 x 10 ¹	99.97 %	3.55
5.	RX Film - 2	2.45 x 10 ⁵	5.00			
6.	RX Film - 3	2.45 x 10 ⁵	1.50 x 10 ¹			

* Mean count for control plate counts at 24hr.

Table 2. Test result of the antimicrobial effect against Escherichia coli ATCC 8739

Sample	Sample	Number of Living Bacteria per Sample (40mm x 40mm)				Antimicrobial Efficacy (Must be >2.0)
		Initial	After 24 Hours	After 24 Hours Average	Reduction %	
1.	Control Film - 1	1.06 x 10 ⁵	4.85 x 10 ⁶	4.02 x 10 ⁶	N/A	N/A
2.	Control Film - 2	1.55 x 10 ⁵	2.50 x 10 ⁶			
3.	Control Film - 3	1.40 x 10 ⁵	4.70 x 10 ⁶			
4.	RX Film - 1	1.55 x 10 ⁵	1.30 x 10 ⁶	1.45 x 10 ⁶	63.90 %	0.44
5.	RX Film - 2	1.55 x 10 ⁵	1.05 x 10 ⁶			
6.	RX Film - 3	1.55 x 10 ⁵	2.00 x 10 ⁶			

* Mean count for control plate counts at 24hr.