

BIOTECA Co., Ltd.

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TEST REPORT

CLIENT: SHARECHEM REPORT NO.: TR-2005-044(E)

ADDRESS: 142-10, Saneop-ro 156beon-gil, Gwonseon-gu, RECEIPT DATE : MAY.11.2020

Suwon-si, Gyeonggi-do, Republic of Korea COMPLETION DATE: MAY.14.2020

SAMPLE : agab t19 PAGE : 1 OF TOTAL

(1) TEST RESULTS: ANTIBACTERIAL ACTIVITY TEST (APPLY TO JIS Z 2801 - 2010)

CONTENT TEST BACTERIA	STRAIN 1 : Staphylococcus aureus ATCC 6538P
INOCULUM CONCENTRATION (CFU/m/)	5.3 × 10 ⁵
VALID TEST CONDITION (Lmax-Lmin)/(Lmean)	0.023
U ₀	1.3 × 10 ⁴
Ut	6.6 × 10 ⁵
At	< 10
ANTIBACTERIAL ACTIVITY VALUE (R) RATE (%)	(4.8) 99.9

CONTENT TEST BACTERIA	STRAIN 2 : <i>Escherichia coli</i> ATCC 8739
INOCULUM CONCENTRATION (CFU/m2)	4.8 × 10 ⁵
VALID TEST CONDITION (Lmax-Lmin)/(Lmean)	0.031
U ₀	1.2 × 10 ⁴
Ut	6.9 × 10 ⁵
A _t	< 10
ANTIBACTERIAL ACTIVITY VALUE (R) RATE (%)	(4.8) 99.9

REMARK) \cdot < = LESS THAN

· CFU = Colony Forming Unit

The test result of this test report only limited in the sample and sample name presented by the customer and do not represent the all products of the customer. This test report shall be used only within the purpose of its defined usage and also shall not be used for public relations, advertisement and lawsuit without the BIOTECA's lawful conference.



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(2) TEST METHOD

TEST BACTERIA: STRAIN 1 - Staphylococcus aureus ATCC 6538P

STRAIN 2 - Escherichia coli ATCC 8739

SAMPLE SIZE: 50 mm × 50 mm, STANDARD FILM: 40 mm × 40 mm Stomacher 400® POLY-BAG

STERILIZATION: UV (254 nm) 2 HOUR RADIATION, INOCULUM VOLUME: 0.4 ml

ANTIBACTERIAL ACTIVITY VALUE (R) : $(U_t - U_0) - (A_t - U_0)$.

ANTIBACTERIAL ACTIVITY RATE (%) : $[(10^{Ut} - 10^{At}) / 10^{Ut}] \times 100$

VALID TEST CONDITION: $(L_{max}-L_{min})/(L_{mean}) \le 0.2$

 U_0 : AVERAGE OF COMMON LOGARITHM OF NUMBER OF BACTERIA, RECOVERED FROM UNTREATED TEST SPECIMENS IMMEDIATELY AFTER INOCULATION $(6.2\times10^3\sim2.5\times10^4~\text{CELL/cm}^2)$

 U_t : AVERAGE OF COMMON LOGARITHM OF NUMBER OF BACTERIA, RECOVERED FROM UNTREATED TEST SPECIMENS AFTER 24 HOUR (MORE THAN 6.2×10^1 CELL/cm²)

At: AVERAGE OF COMMON LOGARITHM OF NUMBER OF BACTERIA, RECOVERED FROM TREATED TEST SPECIMENS AFTER 24 HOUR (CELL/cm²)

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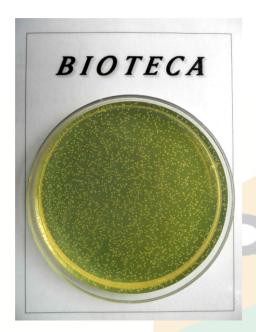


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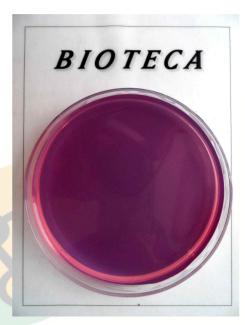
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S. aureus - Sample



E. coli - Blank



E. coli - Sample

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