

Customer Code: M0230030703024/02

Form Code: F02-P40

Identification

Applicant	Rasa salamat Arvand		
Address	National Institute of Genetic Engineering and Biotechnology , Pajooresh Blvd.,Iran-Tehran		
Product Name	Revaheal Sept		
Batch Number	02032741		
Date of Receipt	1403.07.03	Test Duration	2 Days
Date of Test	1403.07.03	Number of Received items	1
Date of Report	1403.07.04	Number of Tested items	1

Environmental conditions

Temperature	22±3°C	Humidity	NMT 50 %RH
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Antibacterial test of the examined product

Start concentration inoculation	10 ⁶ ☐ 10 ⁷ ☐ 10 ⁸ ☒
Included anti-microbial agent	YES ☒ NO ☐
Nutrilizing agent/method	Polysorbate 80: Lecithin/ Dilution-neutralization method

Procedure

The test process was carried using Dilution-neutralization method to evaluation of basic bactericidal activities of **Anti-Microbial product**.

Test procedure was done based on the CFU/ml on TSA plates and evaluate the result.

The test was performed on bacterial strains (*Staphylococcus aureus* ATCC 6538 and *Pseudomonas aeruginosa* ATCC 15442). Microbial counting was done at two times with sample and negative controls at each TSA plates. Validation of condition (control A), Neutralizing agent (Control B), dilution-neutralization method (Control C) were done. The required test contact time is 5 minutes.

Test Results

The test results for two replicants using the **Anti-Microbial product**.

Repeat: One		Test result based on the forming colony on TSA (CFU/Plate)			
		Start inoculum (Na)	Inoculum on TSA	After One minute	After Five minutes
<i>Staphylococcus aureus</i>	Bacteria	10 ⁸	1.12 × 10 ⁷	NA	>3.30 × 10 ³
<i>Pseudomonas aeruginosa</i>	Bacteria	10 ⁸	3.50 × 10 ⁷	NA	<1.40 × 10 ¹

Repeat: Two		Test result based on the forming colony on TSA (CFU/Plate)			
		Start inoculum (Na)	Inoculum on TSA	After One minute	After Five minutes
<i>Staphylococcus aureus</i>	Bacteria	10 ⁸	1.75 × 10 ⁷	NA	>3.30 × 10 ³
<i>Pseudomonas aeruginosa</i>	Bacteria	10 ⁸	3.00 × 10 ⁷	NA	<1.40 × 10 ¹



Test Results (Average)

Average test results for two replicants using the **Anti-Microbial product**.

Average test results		Test result based on the forming colony on TSA (CFU/Plate)			
		Inoculum on TSA	After One minute	After Five minutes	Logs Reduction After Five minutes
<i>Staphylococcus aureus</i>	Bacteria	1.44×10^7	NA	$>3.30 \times 10^3$	3.64
<i>Pseudomonas aeruginosa</i>	Bacteria	3.25×10^7	NA	$<1.40 \times 10^1$	6.36

Conclusion

The results provide evidence to support that the Anti-Microbial product has **more than 5 logs** reduction of *Staphylococcus aureus* ATCC 6538 and *Pseudomonas aeruginosa* ATCC 15442.

- Product activity on *Staphylococcus aureus* shows **3.64 logs** decrease of the bacterial count based on the forming colony on TSA.
- Product activity on *Pseudomonas aeruginosa* shows **6.36 logs** decrease of the bacterial count based.

References

1. DIN EN 1040: 2006- Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of basic bactericidal activity of chemical disinfectants and antiseptics – test method and requirements.

Description For information

EXAMINER: EXAMINER A3

Sign:

A3

Lab. Manager: B. Moradi

Sign:



CEO: M. Borjian

Sign:



Nikopharmed
laboratory sign



- Test results are only related to the tested products.
- Sampling has been done by the customer.
- Test results should not be replicated without the laboratory permission.
- If the tests were performed by the contractor, the name of the contractor is given in the description section.

