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## GUANGDONG DETECTION CENTER OF MICROBIOLOGY

### REPORT FOR ANALYSIS

Report №.

2024SP08890R04E

Name of Sample

Silver ion generator  
(disinfection and sterilization liquid manufacturing machine)

Applicant

Guangdong Kailian E-Commerce CO., LTD.

Test Type

Entrustment Test



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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report №.) 2024SP08890R04E

Verification Code: 2YMX5NGU

|                             |                                                                                                                                       |                             |                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------|
| Name of Sample              | Silver ion generator<br>(disinfection and sterilization<br>liquid manufacturing machine)                                              | Test Type                   | Entrustment Test                                                                                          |
| Applicant                   | Guangdong Kailian E-Commerce<br>CO., LTD.                                                                                             | Address                     | NO.13 BLD 7, Jieyang<br>International Metal Material<br>Market, Rongcheng District,<br>Jieyang, Guangdong |
| Sample Source               | Submitted for Testing by the<br>Applicant                                                                                             | Sample Quantity             | One                                                                                                       |
| Spec and Lot №<br>of Sample | —                                                                                                                                     | State and<br>Characteristic | Machine                                                                                                   |
| Sample Received<br>Date     | 2024-07-25                                                                                                                            | Test Completion<br>Date     | 2024-08-26                                                                                                |
| Item Tested                 | Suspension quantitative sterilization test                                                                                            |                             |                                                                                                           |
| Test Standard and<br>Method | WS/T 650-2019 (5.2.1)                                                                                                                 |                             |                                                                                                           |
| Test Conclusion             | <p>The test data of the sample(s) is attached to the page(s) of this report.</p> <p>Issue Date: 2024-09-20</p> <p>(Official Seal)</p> |                             |                                                                                                           |
| Remarks                     |                                                                                                                                       |                             |                                                                                                           |

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## GUANGDONG DETECTION CENTER OF MICROBIOLOGY

### ANALYSIS AND TEST RESULT

Report №.: 2024SP08890R04E

#### Suspension quantitative sterilization test

1. Test method: WS/T 650-2019 (5.2.1)

2. Action time: 10 min

3. Action concentration: Stock solution

4. Test result:

| Test organisms                                    | Test times | Average cfu of testing groups (CFU/mL) | Average cfu of positive controls (CFU/mL) | Sterilization rate (%) |
|---------------------------------------------------|------------|----------------------------------------|-------------------------------------------|------------------------|
| <i>Escherichia coli</i><br>8099                   | 1          | <10                                    | $4.1 \times 10^4$                         | >99.98                 |
|                                                   | 2          | <10                                    | $4.1 \times 10^4$                         | >99.98                 |
|                                                   | 3          | <10                                    | $4.4 \times 10^4$                         | >99.98                 |
| <i>Staphylococcus aureus</i><br>ATCC 6538         | 1          | <10                                    | $5.8 \times 10^4$                         | >99.98                 |
|                                                   | 2          | <10                                    | $6.1 \times 10^4$                         | >99.98                 |
|                                                   | 3          | <10                                    | $6.2 \times 10^4$                         | >99.98                 |
| <i>Candida albicans</i><br>ATCC 10231             | 1          | <10                                    | $4.4 \times 10^4$                         | >99.98                 |
|                                                   | 2          | <10                                    | $3.4 \times 10^4$                         | >99.97                 |
|                                                   | 3          | <10                                    | $3.6 \times 10^4$                         | >99.97                 |
| <i>Trichophyton rubrum</i><br>CGMCC 3.629         | 1          | 30                                     | $4.8 \times 10^4$                         | 99.94                  |
|                                                   | 2          | 70                                     | $4.2 \times 10^4$                         | 99.83                  |
|                                                   | 3          | 50                                     | $5.0 \times 10^4$                         | 99.90                  |
| <i>Trichophyton mentagrophytes</i><br>CGMCC 3.598 | 1          | 50                                     | $4.2 \times 10^4$                         | 99.88                  |
|                                                   | 2          | 60                                     | $4.3 \times 10^4$                         | 99.86                  |
|                                                   | 3          | 60                                     | $3.8 \times 10^4$                         | 99.84                  |
| <i>Moraxella osloensis</i><br>CGMCC 1.10464       | 1          | <10                                    | $2.4 \times 10^4$                         | >99.96                 |
|                                                   | 2          | <10                                    | $2.2 \times 10^4$                         | >99.95                 |
|                                                   | 3          | <10                                    | $2.4 \times 10^4$                         | >99.96                 |

5. Conclusion: The concentration of the sample for the test was stock solution, and the action time was 10 min. The bactericidal rates of *Escherichia coli*, *Staphylococcus aureus*, *Candida albicans*, *Trichophyton rubrum*, *Trichophyton mentagrophytes*, and *Moraxella osloensis* were all > 99%, which was in line with the results of WS/T 650-2019 (5.2.1.7) (The bactericidal rate for the time specified in the instructions was  $\geq 99\%$ , The sample was judged to have strong antibacterial action against the tested strains under the test conditions.

(to continue)



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## ANALYSIS AND TEST RESULT

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Photo of the sample:



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