

STERILYFT LLC

EFFICACY TEST REPORT

SCOPE OF WORK

Non-standardized Test Method: Microbial Reduction Rate Test

PRODUCT

Sterilyft Elevator Sterilization System

REPORT NUMBER

104471079COL-001

ISSUE DATE

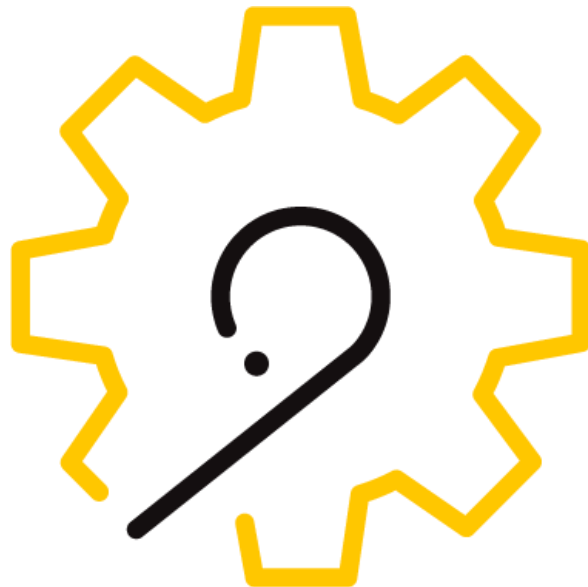
20-OCTOBER-2020

PAGES 8

DOCUMENT CONTROL NUMBER

GFT-OP-10h (6-July-2017)

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SECTION 1 EFFICACY STUDY SUMMARY

| | | |
|-------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Client | | Sterilyft LLC 540 Manida St Bronx, NY 10474 USA |
| Project No. | | G104471079 |
| Sample | Product | Elevator Sterilization System |
| | Model | Sterilyft Model 1001 |
| Procedural | Engineer | Amanda Mastronicolas |
| | Reviewer | Nicholas Unger |
| | Dates Tested | 10/13/20 – 10/16/20 |
| | Report Date | 10/20/2020 |
| Standard | Non-standardized Test Method: Microbial Reduction Rate Test | |
| Testing Facility | Intertek Microbiological Laboratory 1717 Arlingate Ln. Columbus, OH 43228 United States | |

SECTION 2 TEST PROCEDURE

A room was constructed measuring 88”H X 70” W X 70” D = 249.5 cu/ft. The test unit was placed in the center of the constructed room (Photo 1) and the room sealed. A microbial suspension was then aspirated into the chamber for 30 minutes. The test unit was turned on the and samples drawn at intervals of 0, 1, 2, 3, 4, 5, 10, 15 and 30 minutes. The process was then repeated without the test unit in the chamber to provide the natural decay results.

Air sampling took place using an SKC BioStage Single-stage impactor for 30 seconds at 12L/min (.424 cubic feet/min).

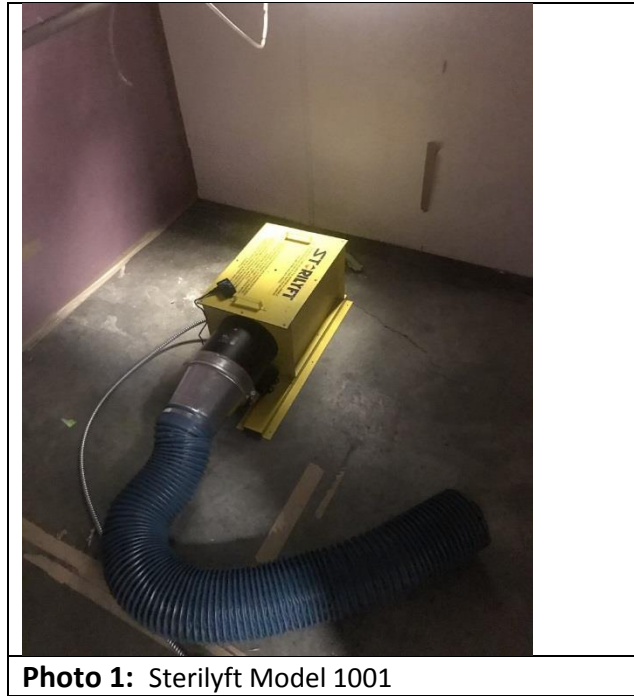


Photo 1: Sterilyft Model 1001

SECTION 3 ORGANISMS

| Organism Name | Organism Type | ATCC Number | Source |
|------------------------|----------------------------|-------------|---------------------|
| Phi X174 bacteriophage | small, non-enveloped virus | 13706-B1 | Carolina Bioscience |
| Escherichia coli | Gram negative bacteria | 11229 | ATCC |
| Aspergillus niger | mold spore | 6275 | ATCC |

SECTION 3 EQUIPMENT

| Equipment Type | Equipment No. | Calibration Due Date |
|------------------------|---------------|----------------------|
| Micropipette | CE 2587 | 6/12/2021 |
| Incubator | CE 2381 | 7/7/2021 |
| Incubator | CE2427 | 7/7/2021 |
| Balance | CE 1882 | 7/7/2021 |
| Autoclave | CE 2376 | Verify Before Use |
| Centrifuge | CE 2382 | For Reference Only |
| Chamber | CE 1149 | For Reference Only |
| Collision Nebulizer | CE 1139 | For Reference Only |
| Refrigerator | CE 1157 | For Reference Only |
| Pump | CE 1137 | For Reference Only |
| Stopwatch | SW013 | 07/07/2021 |
| Ambient Temperature/RH | CE 1179 | For Reference Only |

SECTION 4 MEDIA AND REAGENTS

| Type | Manufacturer | Lot No | Expiration Date |
|---------------------|--------------|---------|-----------------|
| Nutrient Agar | DIFCO | 9346039 | 10/31/2024 |
| Potato Dextros Agar | DIFCO | 9311217 | 10/31/2024 |
| PBS | Fisher | 192736 | 08/01/2022 |

SECTION 5 SAMPLE ACQUISITION


| | |
|----------------------------------|---------------------------------------------------------------------------|
| Acquisition method | Shipped to Intertek |
| Description | UV-C Germicidal and Dual MERV 13 Filtration Elevator Sterilization System |
| Model Number | 1001 |
| Arrival date | 10/14/2020 |
| Condition | New |
| Sample Identification No. | COL2010140937-001 |
| Development Level | Production |

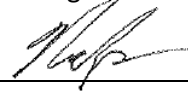


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SECTION 6 SUMMARY OF RESULTS

| Organism Type | Virus | Mold | Bacteria |
|-----------------------------|---------------------------|-----------------|----------------|
| Temperature Min/Max | 20°C (68°F) / 20°C (68°F) | | 20°C (68°F) |
| Humidity Min/Max | 46% RH / 53 % RH | | 43%RH |
| Organism Name | <i>Phi-X174</i> | <i>A. niger</i> | <i>E. coli</i> |
| 30 Minute Percent Reduction | 99.9% | 99.9% | 99.9% |

Completed by: Amanda Mastronicolas
 Title: Microbiology Tech I
 Signature: 
 Date: 20-OCT-2020

Reviewed by: Nicholas Unger
 Title: Staff Engineer
 Signature: 
 Date: 20-OCT-2020

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ANTIMIROBIAL EFFICACY TEST REPORT

Sterilyft LLC
Intertek Report No.: 104471079COL-001

Annex A: Raw Test Data

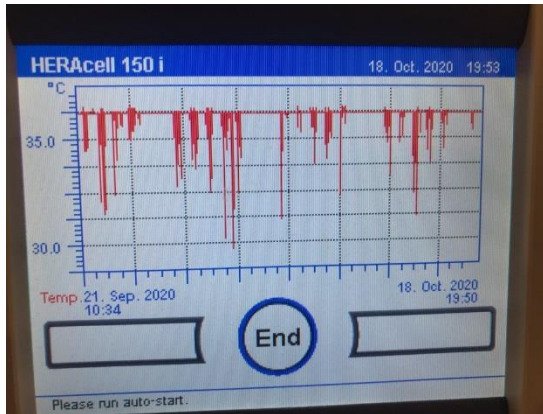
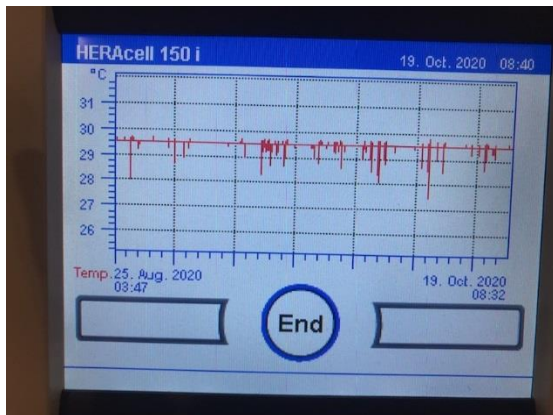
| Test Parameter | | Test Result | Natural Decay Result | Units |
|----------------|-------------------------|------------------------|----------------------|--------------|
| Organism | Species | <i>Coliphage φX174</i> | | --- |
| | ATCC No. | (Item # 124425) | | --- |
| | Challenge Concentration | 2.0 x 10 ⁹ | | PFU/mL |
| Samples (min) | 0 | TNTC | TNTC | No Reduction |
| | 1 | TNTC | TNTC | No Reduction |
| | 2 | 110 | TNTC | 95.8% |
| | 3 | 84 | TNTC | 96.8% |
| | 4 | 71 | TNTC | 97.3% |
| | 5 | 40 | TNTC | 98.5% |
| | 10 | 22 | TNTC | 99.2% |
| | 15 | 11 | TNTC | 99.6% |
| | 30 | 1 | TNTC | 99.9% |
| Results | -- | 99.9% | | Reduction |

| Test Parameter | | Test Result | Natural Decay Result | Units |
|----------------|-------------------------|-----------------------|----------------------|--------------|
| Organism | Species | <i>E. coli</i> | | --- |
| | ATCC No. | 11229 | | --- |
| | Challenge Concentration | 8.8 x 10 ⁸ | | CFU/mL |
| Samples (min) | 0 | TNTC | TNTC | No Reduction |
| | 1 | TNTC | TNTC | No Reduction |
| | 2 | 77 | TNTC | 96.8% |
| | 3 | 66 | TNTC | 97.2% |
| | 4 | 31 | TNTC | 98.7% |
| | 5 | 25 | TNTC | 98.9% |
| | 10 | 9 | TNTC | 99.6% |
| | 15 | 3 | TNTC | 99.9% |
| | 30 | <1 | TNTC | 99.9% |
| Results | -- | 99.9% | | Reduction |

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| Test Parameter | | Test Result | Natural Decay Result | Units |
|------------------|-------------------------|-----------------------|----------------------|---------------|
| Organism | Species | <i>A.niger</i> | | --- |
| | ATCC No. | 6275 | | --- |
| | Challenge Concentration | 1.0 x 10 ⁷ | | CFU/mL |
| Samples (10min.) | 0 | TNTC | TNTC (2628) | For Reference |
| | 1 | 86 | TNTC (2628) | 91.4% |
| | 2 | 45 | TNTC (2628) | 93.5% |
| | 3 | 29 | TNTC (2628) | 97.1% |
| | 4 | 10 | TNTC (2628) | 99.0% |
| | 5 | 7 | TNTC (2628) | 99.3% |
| | 10 | <1 | TNTC (2628) | 99.9% |
| | 15 | 1 | TNTC (2628) | 99.9% |
| | 30 | <1 | TNTC (2628) | 99.9% |
| Results | -- | 99.9% | | Reduction |

Annex B: Incubation Data:



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