| AB-0583-T |
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# TEST RESULTS

## BACTERIAL FILTRATION EFFICIENCY (BFE)

Test Metod: EN 14683:2019+AC:2019 Medical Face Masks,Requirements and Test Methods
A specimen of the mask material is clamped between a impactor and an aerosol chamber. An aerosol of Staphylococcus aureus is introduced into the aerosol chamber and drawn through the mask material and the impactor under vacuum. The bacterial filtration efficiency of the mask is given by the number of colony forming units passing through the medical face mask material expressed as a percentage of the number of colony forming units present in the challenge aerosol.

**ORIGINAL**

| | |
|---|---|
| **Test Flow Rate** | 28,3 L/min |
| **Test Flow Time** | 2 minute |
| **Sample Sizes** | 5 pieces |
| **Microorganism** | *Staphylococcus aureus* ATCC 6538 |
| **Bacterial concentration (cfu/ ml )** | $5x10^5$ cfu/ ml |
| **incubation conditions** | 24 hour, 35°C ± 2°C |
| **Positive control sample average of number of Bacteria (C)** | **$2,74x10^3$ cfu/ ml** |

| RESULTS | | | |
|---|---|---|---|
| **Number of Test Sample** | **Test Sample (T) Number of Bacteria (cfu/ml)** | **Bacterial Filtration Efficiency ( % B )** | **Requirement BFE (%)** |
| **1** | 241 | %91.2 | **≥90** |
| **2** | 236 | %91.4 | |
| **3** | 230 | %91.6 | |
| **4** | 224 | %91.8 | |
| **5** | 254 | %90.7 | |

*cfu: Colony-forming unit*
B= ( C-T ) / C x 100
%B: Bacterial Filtration Efficiency
C: is the mean of the total plate counts for the two positive control runs
T: is the total plate count for the test specimen

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# TEST RESULTS
## BACTERIAL FILTRATION EFFICIENCY (BFE)

Test Metod: EN 14683:2019+AC:2019 Medical Face Masks,Requirements and Test Methods

A specimen of the mask material is clamped between a impactor and an aerosol chamber. An aerosol of Staphylococcus aureus is introduced into the aerosol chamber and drawn through the mask material and the impactor under vacuum. The bacterial filtration efficiency of the mask is given by the number of colony forming units passing through the medical face mask material expressed as a percentage of the number of colony forming units present in the challenge aerosol.

| **AFTER WASH** | |
|---|---|
| **Test Flow Rate** | 28,3 L/min |
| **Test Flow Time** | 2 minute |
| **Sample Sizes** | 5 pieces mask |
| **Microorganism** | *Staphylococcus aureus* ATCC 6538 |
| **Washing Cycle** | 5 |
| **Washing Method** | 6N@60°C Line Dry/ (TS EN ISO 6330). 2012 |
| **Bacterial concentration (cfu/ ml )** | $5x10^5$ cfu/ ml |
| **incubation conditions** | 24 hour, 35°C ± 2°C |
| **Positive control sample average of number of Bacteria (C)** | **$2,74x10^3$ cfu/ ml** |

| **RESULTS** | | | |
|---|---|---|---|
| **Number of Test Sample** | **Test Sample (T) Number of Bacteria (cfu/ml)** | **Bacterial Filtration Efficiency ( % B )** | **Requirement BFE (%)** |
| **1** | 265 | %90.3 | **≥90** |
| **2** | 271 | %90.1 | |
| **3** | 251 | %90.8 | |
| **4** | 258 | %90.6 | |
| **5** | 2268 | %90.2 | |

*cfu: Colony-forming unit*

B= ( C-T ) / C x 100

%B: Bacterial Filtration Efficiency
C: is the mean of the total plate counts for the two positive control runs
T: is the total plate count for the test specimen

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# TEST RESULTS

## MICROBIAL CLEANLINESS (Bioburden)

**Test Metod:** Ref: EN ISO 11737-1:2018

The sample is put in extraciton liquid after shaking well, inoculated on the agar.
After incubation at 30 ± 1 ° C for 72 hours, growth microorganisms are counted on the agar.

**ORIGINAL**

| | RESULTS | REQUIREMENT |
|---|---|---|
| **Microbial cleanliness (cfu/g)** | 17 cfu/g | ≤30 cfu/g |

***cfu= Colony forming unit.**

## MICROBIAL CLEANLINESS (Bioburden)

**Test Metod:** Ref: EN ISO 11737-1:2018

The sample is put in extraciton liquid after shaking well, inoculated on the agar.
After incubation at 30 ± 1 ° C for 72 hours, growth microorganisms are counted on the agar.

(After 5 washes, 6N@60°C Line Dry) / TS EN ISO 6330:2012

**AFTER WASH**

| | RESULTS | REQUIREMENT |
|---|---|---|
| **Microbial cleanliness (cfu/g)** | 8 cfu/g | ≤30 cfu/g |

***cfu= Colony forming unit.**