

TOK-25 BFE

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BACTERIAL FILTRATION EFFICIENCY AND DIFFERENTIAL PRESSURE – FINAL REPORT

Laboratory Number:

Procedure Number: Sample Source:

Sample Identification:

Deviations:

Statement of Uncertainty: Andersen Sampler Flow Rate:

BFE Conditioning:

Di L Conditioning.

Sample Received Date: Lab Phase Start Date: Lab Phase Completion Date:

Report Issue Date: Results:

359507

SOP/ARO/007L.1 Tianjin TEDA Co. Ltd.

Refer to Table 1

None

If applicable, available upon request

28.3 L/min. (1 CFM)

4 hours minimum at 21 ± 5°C and 85 ± 5%

relative humidity

15 Jan 2007 16 Jan 2007 28 Mar 2007

29 Mar 2007

Refer to Table 1

The Bacterial Filtration Efficiency (BFE) procedure is performed to determine the filtration efficiency of various materials and filtration devices using a challenge organism of Staphylococcus aureus. This procedure complies with ASTM F2101. The Differential Pressure (Delta P or Δ P) test is performed to determine the air exchange differential (breathability) of porous materials.

Technical Reviewer

Stacey Cushing, B.S. Study Director

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Study Completion Date

29 Mar 200

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TABLE 1. Results

SAMPLE IDENTIFICATION	ΔP (mm H ₂ O/cm ²)	PERCENT BFE
TDK-25 - 1	2.0	>99.9%*
TDK-25 - 2	1.7	99.9%
TDK-25 - 3	1.8	>99.9%*
TDK-25 – 4	2.1	>99.9%*
TDK-25 - 5	2.2	>99.9%*

CONTROL AVERAGE: 2235 CFU

MEAN PARTICLE SIZE (MPS): 3.2 μm

^{*} There were no detected colonies on any of the Andersen sampler plates for this sample.