TDK-25 BFE

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Prepared For:
Jinyu Li
Tianjin TEDA Co. Ltd.
South Yinhe Rd., Beichen Dist.
Tianjin City 300400
P.R. CHINA

Submitted By:
Nelson Laboratories, Inc.
6280 South Redwood Road
Salt Lake City, UT 84123-6600
801-290-7500

BACTERIAL FILTRATION EFFICIENCY AND DIFFERENTIAL PRESSURE – FINAL REPORT

Laboratory Number:	359507
Procedure Number:	SOP/ARO/007L.1
Sample Source:	Tianjin TEDA Co. Ltd.
Sample Identification:	Refer to Table 1
Deviations:	None
Statement of Uncertainty:	If applicable, available upon request
Andersen Sampler Flow Rate:	28.3 L/min. (1 CFM)
BFE Conditioning:	4 hours minimum at 21 ± 5°C and 85 ± 5% relative humidity
Sample Received Date:	15 Jan 2007
Lab Phase Start Date:	16 Jan 2007
Lab Phase Completion Date:	28 Mar 2007
Report Issue Date:	29 Mar 2007
Results:	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 ΔP) test is performed to determine the air exchange differential (breathability) of porous materials.

J. DH
Technical Reviewer

Stacey Cushing
Stacey Cushing, B.S.
Study Director

29 Mar 2007
Study Completion Date

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Lab Number 359507

Bacterial Filtration Efficiency
and Differential Pressure

TABLE 1. Results

SAMPLE IDENTIFICATION	ΔP (mm H_2O/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.