National Institute of Standards and Technology

NVLAP®

National Voluntary Laboratory Accreditation Program

ISO/IEC GUIDE 25:1990
ANSI/NCSL Z540-1-1994
ISO 9002:1987

Scope of Accreditation

CALIBRATION LABORATORIES **NVLAP LAB CODE 200359-0**

PHILIP MORRIS STANDARDS AND CALIBRATION LABORATORY
2001 East Walmsley Boulevard
Richmond, VA 23234
Mr. Robert R. Sichi
Phone: 804-274-5657 Fax: 804-274-4540
E-Mail: Robert.R.Sichi@pmusa.com

DIMENSIONAL

NVLAP Code: 20/D05
Length and Diameter

Range in mm	*Best Uncertainty (±) in mm*[note 1]	*Remarks*
Diameter Standards		
<9.7 mm	0.0006	Non Contact Scanning Laser Beam Method
Circumference Standards		
<30.4 mm	0.002	Non Contact Scanning Laser Beam Method

June 30, 2003

Effective through

David F. Alderman

For the National Institute of Standards and Technology

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MECHANICAL

NVLAP Code: 20/M05
Flow Rate

Range	*Best Uncertainty (±) in % of value*[note 1]	*Remarks*
5 mL/min to 4.5 L/min	0.7	Paper Permeability Standards
20mm to 1000mm H_2O Pressure Drop	0.4 + 0.5 mm H_2O	Resistance to Draw Complies with ISO 6565
10% to 95% Ventilation	1.0	Cigarettes Determination of Ventilation Complies with ISO 9512

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PHILIP MORRIS STANDARDS AND CALIBRATION LABORATORY

NVLAP Code: 20/M08
Mass

Range	*Best Uncertainty (±) in mg*[note 1]	*Remarks*
1 kg	0.434	Direct Comparison
500 g	0.232	Direct Comparison
200 g	0.135	Direct Comparison
100 g	0.024	Direct Comparison
50 g	0.016	Direct Comparison
20 g	0.016	Direct Comparison
10 g	0.015	Direct Comparison
5 g	0.011	Direct Comparison
2 g	0.009	Direct Comparison
1 g	0.009	Direct Comparison
500 mg	0.009	Direct Comparison
200 mg	0.009	Direct Comparison
100 mg	0.009	Direct Comparison
50 mg	0.009	Direct Comparison
20 mg	0.009	Direct Comparison

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10 mg	0.009	Direct Comparison
5 mg	0.009	Direct Comparison
2 mg	0.009	Direct Comparison
1 mg	0.009	Direct Comparison

THERMODYNAMICS

NVLAP Code: 20/T07
Resistance Thermometry

Range in °C	*Best Uncertainty (±) in °C*[note 1]	*Remarks*
0 to 200	0.1	Comparison Method

1. Represents an expanded uncertainty using a coverage factor, k=2.

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