



National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NYS Bureau of Weights & Measures Metrology Laboratory

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

DIMENSIONAL

NVLAP Code: 20/D13

Surveying Rods and Tapes

<i>Range</i>	<i>Best Uncertainty (±) in inches ^{note 1}</i>	<i>Remarks</i>
0.5 in to < 12 in	0.0023	Rules – Rule Method
12 in to 24 in	0.0023	Rules – Rule Method
1 ft to 16 ft (0.1 m to 5 m)	0.0033	Rules – Tape Method
1 ft to 16 ft (0.1 m to 5 m)	0.0042	Steel Tapes – Bench Method
15 ft to 30 ft (5 m to 10 m)	0.0076	Steel Tapes – Bench Method
30 ft to 45 ft (10 m to 15 m)	0.011	Steel Tapes – Bench Method
45 ft to 60 ft (15 m to 20 m)	0.014	Steel Tapes – Bench Method
60 ft to 75 ft (20 m to 25 m)	0.018	Steel Tapes – Bench Method
75 ft to 90 ft (25 m to 30 m)	0.021	Steel Tapes – Bench Method
90 ft to 105 ft (30 m to 35 m)	0.025	Steel Tapes – Bench Method
105 ft to 120 ft (35 m to 40 m)	0.028	Steel Tapes – Bench Method
120 ft to 135 ft (40 m to 45 m)	0.031	Steel Tapes – Bench Method
135 ft to 150 ft (45 m to 50 m)	0.035	Steel Tapes – Bench Method
150 ft to 165 ft (50 m to 55 m)	0.038	Steel Tapes – Bench Method
156 ft to 180 ft (55 m to 60 m)	0.041	Steel Tapes – Bench Method
180 ft to 195 ft	0.045	Steel Tapes – Bench Method
195 ft to 210 ft	0.048	Steel Tapes – Bench Method

2009-01-01 through 2009-12-31

Effective dates

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1/4 yd to 5 yd	0.009	Fabric Tapes – Tape Method
5 yd to 12 yd	0.016	Fabric Tapes – Tape Method
1 ft to 100 ft (1 m to 30 m)	0.13	Fabric Tapes – Tape Method
100 ft to 200 ft (30 m to 60 m)	0.18	Fabric Tapes – Tape Method
200 ft to 300 ft (60 m to 90 m)	0.22	Fabric Tapes – Tape Method

TIME & FREQUENCY

NVLAP Code: 20/F02
Time Dissemination

<i>Range in hr</i>	<i>Best Uncertainty (±) in sec^{note 1}</i>	<i>Remarks</i>
0.5 to 3	0.17	Stopwatches

MECHANICAL

NVLAP Code: 20/M08
Mass

<i>Range</i>	<i>Best Uncertainty (±)^{note 1}</i>	<i>Remarks</i>
25 kg	25 mg	Echelon II
20 kg	22 mg	Echelon II
10 kg	7.0 mg	Echelon II
5 kg	3.7 mg	Echelon II
3 kg	2.7 mg	Echelon II
2 kg	2.2 mg	Echelon II
1 kg	0.08 mg	Echelon II
500 g	0.056 mg	Echelon II
300 g	0.048 mg	Echelon II
200 g	0.045 mg	Echelon II
100 g	0.031 mg	Echelon II
50 g	0.021 mg	Echelon II
30 g	0.019 mg	Echelon II
20 g	0.017 mg	Echelon II
10 g	0.011 mg	Echelon II
5 g	0.0096 mg	Echelon II

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3 g	0.0078 mg	Echelon II
2 g	0.0076 mg	Echelon II
1 g	0.0074 mg	Echelon II
500 mg	0.0071 mg	Echelon II
300 mg	0.0070 mg	Echelon II
200 mg	0.0069 mg	Echelon II
100 mg	0.0078 mg	Echelon II
50 mg	0.0080 mg	Echelon II
30 mg	0.0079 mg	Echelon II
20 mg	0.0079 mg	Echelon II
10 mg	0.0082 mg	Echelon II
5 mg	0.0079 mg	Echelon II
3 mg	0.0077 mg	Echelon II
2 mg	0.0079 mg	Echelon II
1 mg	0.0079 mg	Echelon II

Mass-Avoirdupois

50 lb	26 mg	Echelon II
25 lb	16 mg	Echelon II
20 lb	8.0 mg	Echelon II
10 lb	10 mg	Echelon II
5 lb	5.0 mg	Echelon II
3 lb	2.2 mg	Echelon II
2 lb	0.08 mg	Echelon II
1 lb	0.056 mg	Echelon II
0.5 lb	0.050 mg	Echelon II
0.3 lb	0.030 mg	Echelon II
0.2 lb	0.029 mg	Echelon II
0.1 lb	0.029 mg	Echelon II
0.05 lb	0.021 mg	Echelon II
0.03 lb	0.013 mg	Echelon II
0.02 lb	0.012 mg	Echelon II
0.01 lb	0.011 mg	Echelon II
0.005 lb	0.0085 mg	Echelon II
0.003 lb	0.0082 mg	Echelon II

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0.002 lb	0.0075 mg	Echelon II
0.001 lb	0.0075 mg	Echelon II
0.0005 lb	0.0075 mg	Echelon II
0.0003 lb	0.0070 mg	Echelon II
0.0002 lb	0.0077 mg	Echelon II
0.0001 lb	0.0081 mg	Echelon II
0.00005 lb	0.0081 mg	Echelon II
0.00003 lb	0.0077 mg	Echelon II
0.00002 lb	0.0077 mg	Echelon II
0.00001 lb	0.0081 mg	Echelon II
0.000005 lb	0.0081 mg	Echelon II
0.000003 lb	0.0077 mg	Echelon II
0.000002 lb	0.0077 mg	Echelon II
0.000001 lb	0.0081 mg	Echelon II

Mass-Metric

1000 kg	16.2 g	Echelon III
500 kg	5.1 g	Echelon III
200 kg	4.9 g	Echelon III
100 kg	4.9 g	Echelon III
50 kg	0.43 g	Echelon III
30 kg	0.43 g	Echelon III
25 kg	0.36 g	Echelon III
20 kg	0.36 g	Echelon III
10 kg	0.11 g	Echelon III
5 kg	45 mg	Echelon III
3 kg	21 mg	Echelon III
2 kg	19 mg	Echelon III
1 kg	16 mg	Echelon III
500 g	3.6 mg	Echelon III
300 g	3.2 mg	Echelon III
200 g	3.2 mg	Echelon III
100 g	2.8 mg	Echelon III
50 g	0.27 mg	Echelon III
30 g	0.20 mg	Echelon III

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20 g	0.20 mg	Echelon III
10 g	0.14 mg	Echelon III
5 g	0.13 mg	Echelon III
3 g	0.029 mg	Echelon III
2 g	0.029 mg	Echelon III
1 g	0.019 mg	Echelon III
500 mg	0.019 mg	Echelon III
300 mg	0.019 mg	Echelon III
200 mg	0.019 mg	Echelon III
100 mg	0.019 mg	Echelon III
50 mg	0.019 mg	Echelon III
30 mg	0.019 mg	Echelon III
20 mg	0.019 mg	Echelon III
10 mg	0.019 mg	Echelon III
5 mg	0.019 mg	Echelon III
3 mg	0.019 mg	Echelon III
2 mg	0.019 mg	Echelon III
1 mg	0.019 mg	Echelon III

Mass-Avoirdupois

2500 lb	17 g	Echelon III
2000 lb	11 g	Echelon III
1000 lb	5.5 g	Echelon III
500 lb	5.7 g	Echelon III
200 lb	5.0 g	Echelon III
100 lb	0.70 g	Echelon III
50 lb	0.35 g	Echelon III
25 lb	0.11 g	Echelon III
20 lb	0.11 g	Echelon III
10 lb	45 mg	Echelon III
5 lb	21 mg	Echelon III
3 lb	19 mg	Echelon III

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2 lb	16 mg	Echelon III
1 lb	3.7 mg	Echelon III
0.5 lb	3.3 mg	Echelon III
0.3 lb	3.3 mg	Echelon III
0.2 lb	2.8 mg	Echelon III
0.1 lb	0.25 mg	Echelon III
0.05 lb	0.20 mg	Echelon III
0.03 lb	0.20 mg	Echelon III
0.02 lb	0.13 mg	Echelon III
0.01 lb	0.13 mg	Echelon III
0.005 lb	0.029 mg	Echelon III
0.003 lb	0.029 mg	Echelon III
0.002 lb	0.019 mg	Echelon III
0.001 lb	0.019 mg	Echelon III
8 oz	3.2 mg	Echelon III
4 oz	3.2 mg	Echelon III
2 oz	0.24 mg	Echelon III
1 oz	0.19 mg	Echelon III
1/2 oz	0.19 mg	Echelon III
1/4 oz	0.13 mg	Echelon III
1/8 oz	0.029 mg	Echelon III
1/16 oz	0.029 mg	Echelon III
1/32 oz	0.019 mg	Echelon III

NVLAP Code: 20/M12
Volume

Range	Best Uncertainty (\pm) in ml ^{note 1}	Remarks
1 gal	0.40	Gravimetric – Glassware
1 quart	0.25	Gravimetric – Glassware
1 pint	0.12	Gravimetric – Glassware
1 gill	0.081	Gravimetric – Glassware
2 fl oz	0.042	Gravimetric – Glassware

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<i>Range</i>	<i>Best Uncertainty (±) in gal^{note 1}</i>	<i>Remarks</i>
10 gal	0.00052	Gravimetric – Metal Measures
5 gal	0.00025	Gravimetric – Metal Measures
1 gal	0.00011	Gravimetric – Metal Measures

<i>Range</i>	<i>Best Uncertainty (±) in min^{note 1}</i>	<i>Remarks</i>
1 gal (5 L)	9.0	Transfer – Glassware
½ gal (2 L)	8.0	Transfer – Glassware
1 qt (1 L)	5.8	Transfer – Glassware
1 pt (500 ml)	2.9	Transfer – Glassware
1/2 pint (200 ml)	2.5	Transfer – Glassware
1 gill (100 ml)	2.1	Transfer – Glassware

<i>Range</i>	<i>Best Uncertainty (±) in gal^{note 1}</i>	<i>Remarks</i>
150 gal	0.019	Transfer – Metal Measures
132 gal	0.019	Transfer – Metal Measures
100 gal	0.018	Transfer – Metal Measures
50 gal	0.009	Transfer – Metal Measures
25 gal	0.0076	Transfer – Metal Measures
5 gal	0.0014	Transfer – Metal Measures
2 gal	0.0005	Transfer – Metal Measures

1. Represents an expanded uncertainty using a coverage factor, $k = 2$, at an approximate level of confidence of 95 %.

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