



National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Minnesota Metrology Laboratory

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CALIBRATION LABORATORIES

NVLAP LAB CODE 105003-0

NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

MECHANICAL

NVLAP Code: 20/M08

Mass - Metric

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
50 kg	60 mg	Echelon II
30 kg	16 mg	Echelon II
20 kg	15 mg	Echelon II
10 kg	12 mg	Echelon II
5 kg	6.0 mg	Echelon II
3 kg	6.0 mg	Echelon II
2 kg	0.60 mg	Echelon II
1 kg	0.60 mg	Echelon II
500 g	6.0 mg	Echelon II
300 g	6.0 mg	Echelon II
200 g	0.6 mg	Echelon II
100 g	0.0096 mg	Echelon II
50 g	0.0072 mg	Echelon II
30 g	0.0066 mg	Echelon II
20 g	0.0064 mg	Echelon II
10 g	0.0064 mg	Echelon II
5 g	0.0062 mg	Echelon II
3 g	0.0062 mg	Echelon II

2009-01-01 through 2009-12-31

Effective dates

Dally S. Bruce

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2 g	0.0062 mg	Echelon II
1 g	0.0064 mg	Echelon II
500 mg	0.0012 mg	Echelon II
300 mg	0.0009 mg	Echelon II
200 mg	0.00074 mg	Echelon II
100 mg	0.00068 mg	Echelon II
50 mg	0.00064 mg	Echelon II
30 mg	0.00064 mg	Echelon II
20 mg	0.00062 mg	Echelon II
10 mg	0.00064 mg	Echelon II
5 mg	0.00062 mg	Echelon II
3 mg	0.00062 mg	Echelon II
2 mg	0.00062 mg	Echelon II
1 mg	0.00064 mg	Echelon II

Mass-Avoirdupois

2500 lb	8.0 g	Echelon II
2000 lb	7.2 g	Echelon II
1500 lb	6.4 g	Echelon II
1000 lb	1.7 g	Echelon II
500 lb	1.2 g	Echelon II
250 lb	1.2 g	Echelon II
100 lb	78 mg	Echelon II
50 lb	22 mg	Echelon II
30 lb	16 mg	Echelon II
25 lb	16 mg	Echelon II
20 lb	15 mg	Echelon II
10 lb	7.2 mg	Echelon II
5 lb	1.0 mg	Echelon II
3 lb	0.74 mg	Echelon II
2 lb	0.60 mg	Echelon II
1 lb	0.60 mg	Echelon II
0.5 lb	0.60 mg	Echelon II
0.3 lb	0.60 mg	Echelon II
0.2 lb	0.0080 mg	Echelon II

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0.1 lb	0.0074 mg	Echelon II
0.05 lb	0.0066 mg	Echelon II
0.03 lb	0.0066 mg	Echelon II
0.02 lb	0.0064 mg	Echelon II
0.01 lb	0.0068 mg	Echelon II
0.005 lb	0.0064 mg	Echelon II
0.003 lb	0.0064 mg	Echelon II
0.002 lb	0.0064 mg	Echelon II
0.001 lb	0.0068 mg	Echelon II

Mass-Metric

500 kg	2.0 g	Echelon III
250 kg	1.0 g	Echelon III
50 kg	67 mg	Echelon III
30 kg	62 mg	Echelon III
20 kg	62 mg	Echelon III
10 kg	61 mg	Echelon III
5 kg	8.5 mg	Echelon III
3 kg	8.5 mg	Echelon III
2 kg	8.5 mg	Echelon III
1 kg	8.5 mg	Echelon III
500 g	4.0 mg	Echelon III
300 g	4.0 mg	Echelon III
200 g	0.62 mg	Echelon III
100 g	0.061 mg	Echelon III
50 g	0.060 mg	Echelon III
30 g	0.060 mg	Echelon III
20 g	0.060 mg	Echelon III
10 g	0.060 mg	Echelon III
5 g	0.060 mg	Echelon III
3 g	0.060 mg	Echelon III
2 g	0.060 mg	Echelon III
1 g	0.040 mg	Echelon III
500 mg	0.040 mg	Echelon III
300 mg	0.040 mg	Echelon III

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200 mg	0.040 mg	Echelon III
100 mg	0.040 mg	Echelon III
50 mg	0.040 mg	Echelon III
30 mg	0.040 mg	Echelon III
20 mg	0.040 mg	Echelon III
10 mg	0.040 mg	Echelon III
5 mg	0.040 mg	Echelon III
3 mg	0.040 mg	Echelon III
2 mg	0.040 mg	Echelon III
1 mg	0.040 mg	Echelon III

Mass-Avoirdupois

2500 lb	6.0 g	Echelon III
2000 lb	5.0 g	Echelon III
1500 lb	4.0 g	Echelon III
1000 lb	1.8 g	Echelon III
500 lb	1.0 g	Echelon III
250 lb	800 mg	Echelon III
100 lb	74 mg	Echelon III
50 lb	64 mg	Echelon III
30 lb	62 mg	Echelon III
25 lb	62 mg	Echelon III
20 lb	60 mg	Echelon III
10 lb	9.4 mg	Echelon III
5 lb	6.0 mg	Echelon III
3 lb	6.0 mg	Echelon III
2 lb	4.0 mg	Echelon III
1 lb	2.0 mg	Echelon III
0.5 lb	6.0 mg	Echelon III
0.3 lb	0.60 mg	Echelon III
0.2 lb	0.060 mg	Echelon III
0.1 lb	0.060 mg	Echelon III
0.05 lb	0.060 mg	Echelon III
0.03 lb	0.060 mg	Echelon III
0.02 lb	0.040 mg	Echelon III

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0.01 lb	0.040 mg	Echelon III
0.005 lb	0.040 mg	Echelon III
0.003 lb	0.040 mg	Echelon III
0.002 lb	0.040 mg	Echelon III
0.001 lb	0.040 mg	Echelon III
8 oz	2.2 mg	Echelon III
4 oz	0.60 mg	Echelon III
2 oz	0.060 mg	Echelon III
1 oz	0.060 mg	Echelon III
1/2 oz	0.060 mg	Echelon III
1/4 oz	0.041 mg	Echelon III
1/8 oz	0.041 mg	Echelon III
1/16 oz	0.041 mg	Echelon III
1/32 oz	0.041 mg	Echelon III
1/64 oz	0.041 mg	Echelon III

NVLAP Code: 20/M12 Volume

<i>Range</i>	<i>Best Uncertainty (±) ^{note 1} in mL</i>	<i>Remarks</i>
100 gal	8.9	Gravimetric Method
50 gal	7.8	Gravimetric Method
30 gal	6.7	Gravimetric Method
25 gal	6.7	Gravimetric Method
20 gal	6.7	Gravimetric Method
10 gal	2.1	Gravimetric Method
5 gal	2.0	Gravimetric Method
3 gal	2.0	Gravimetric Method
1 gal	0.50	Gravimetric Method
20 000 ml	2.0	Gravimetric Method
2000 ml	0.40	Gravimetric Method
1000 ml	0.40	Gravimetric Method
100 ml	0.10	Gravimetric Method
10 ml	0.10	Gravimetric Method
1 ml	0.050	Gravimetric Method
1 qt	0.40	Gravimetric Method

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CALIBRATION LABORATORIES

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1 pt	0.20	Gravimetric Method
1/2 pt	0.20	Gravimetric Method
5 gal	0.48 in ³	Small Volume Volumetric

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

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