



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200647-0

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 (±) ^{note 1}</i>	<i>Remarks</i>
30 kg	10 mg	Echelon I
20 kg	5.5 mg	Echelon I
10 kg	2.3 mg	Echelon I
5 kg	1.5 mg	Echelon I
3 kg	0.73 mg	Echelon I
2 kg	0.49 mg	Echelon I
1 kg	73 µg	Echelon I
500 g	39 µg	Echelon I
300 g	27 µg	Echelon I
200 g	21 µg	Echelon I
100 g	21 µg	Echelon I
50 g	11 µg	Echelon I
30 g	6.7 µg	Echelon I
20 g	4.9 µg	Echelon I
10 g	3.9 µg	Echelon I
5 g	2.0 µg	Echelon I

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



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3 g	1.3 µg	Echelon I
2 g	1.0 µg	Echelon I
1 g	0.92 µg	Echelon I
500 mg	0.61 µg	Echelon I
300 mg	0.48 µg	Echelon I
200 mg	0.43 µg	Echelon I
100 mg	0.49 µg	Echelon I
50 mg	0.65 µg	Echelon I
30 mg	0.59 µg	Echelon I
20 mg	0.60 µg	Echelon I
10 mg	0.71 µg	Echelon I
5 mg	0.46 µg	Echelon I
3 mg	0.36 µg	Echelon I
2 mg	0.33 µg	Echelon I
1 mg	0.37 µg	Echelon I

Mass – Metric

30 kg	14 mg	Echelon II
20 kg	7.4 mg	Echelon II
10 kg	3.2 mg	Echelon II
5 kg	1.5 mg	Echelon II
3 kg	1.1 mg	Echelon II
2 kg	0.77 mg	Echelon II
1 kg	0.20 mg	Echelon II
500 g	0.12 mg	Echelon II
300 g	79 µg	Echelon II
200 g	74 µg	Echelon II
100 g	32 µg	Echelon II
50 g	18 µg	Echelon II
30 g	14 µg	Echelon II
20 g	11 µg	Echelon II
10 g	10 µg	Echelon II
5 g	4.8 µg	Echelon II
3 g	3.6 µg	Echelon II

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2 g	3.0 µg	Echelon II
1 g	2.1 µg	Echelon II
500 mg	1.8 µg	Echelon II
300 mg	1.6 µg	Echelon II
200 mg	1.3 µg	Echelon II
100 mg	1.0 µg	Echelon II
50 mg	0.89 µg	Echelon II
30 mg	0.80 µg	Echelon II
20 mg	0.76 µg	Echelon II
10 mg	0.81 µg	Echelon II
5 mg	0.59 µg	Echelon II
3 mg	0.59 µg	Echelon II
2 mg	0.54 µg	Echelon II
1 mg	0.67 µg	Echelon II
Mass – Avoirdupois		
1000 lb	1.7 g	Echelon II
500 lb	0.78 g	Echelon II
50 lb	11 mg	Echelon II
25 lb	9.0 mg	Echelon II
20 lb	3.3 mg	Echelon II
10 lb	1.6 mg	Echelon II
5 lb	1.1 mg	Echelon II
3 lb	0.82 mg	Echelon II
2 lb	0.21 mg	Echelon II
1 lb	0.13 mg	Echelon II
0.5 lb	88 µg	Echelon II
0.3 lb	81 µg	Echelon II
0.2 lb	36 µg	Echelon II
0.1 lb	21 µg	Echelon II
0.05 lb	17 µg	Echelon II
0.03 lb	14 µg	Echelon II
0.02 lb	11 µg	Echelon II
0.01 lb	6.4 µg	Echelon II
0.005 lb	4.7 µg	Echelon II

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0.003 lb	4.8 µg	Echelon II
0.002 lb	3.7 µg	Echelon II
0.001 lb	3.2 µg	Echelon II
8 oz	88 µg	Echelon II
4 oz	82 µg	Echelon II
2 oz	41 µg	Echelon II
1 oz	16 µg	Echelon II
1/2 oz	13 µg	Echelon II
1/4 oz	12 µg	Echelon II
1/8 oz	6.9 µg	Echelon II
1/16	4 µg	Echelon II
1/32	3.4 µg	Echelon II
 Mass – Metric		
50 kg	0.44 g	Echelon III
30 kg	0.17 g	Echelon III
20 kg	0.17 g	Echelon III
10 kg	0.17 g	Echelon III
5 kg	13 mg	Echelon III
3 kg	10 mg	Echelon III
2 kg	9.2 mg	Echelon III
1 kg	6.2 mg	Echelon III
500 g	3.0 mg	Echelon III
300 g	3.0 mg	Echelon III
200 g	0.39 mg	Echelon III
100 g	0.30 mg	Echelon III
50 g	0.17 mg	Echelon III
30 g	0.15 mg	Echelon III
20 g	0.15 mg	Echelon III
10 g	0.15 mg	Echelon III
5 g	0.15 mg	Echelon III
3 g	52 µg	Echelon III
2 g	52 µg	Echelon III
1 g	52 µg	Echelon III
500 mg	4.9 µg	Echelon III

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300 mg	4.9 µg	Echelon III
200 mg	4.8 µg	Echelon III
100 mg	4.7 µg	Echelon III
50 mg	5.1 µg	Echelon III
30 mg	5.1 µg	Echelon III
20 mg	5.1 µg	Echelon III
10 mg	4.8 µg	Echelon III
5 mg	4.8 µg	Echelon III
3 mg	4.8 µg	Echelon III
2 mg	4.8 µg	Echelon III
1 mg	4.1 µg	Echelon III

Mass – Avoirdupois

5000 lb	66 g	Echelon III
4000 lb	65 g	Echelon III
3500 lb	65 g	Echelon III
2500 lb	28 g	Echelon III
2000 lb	28 g	Echelon III
1000 lb	5.4 g	Echelon III
500 lb	2.8 g	Echelon III
100 lb	0.44 g	Echelon III
50 lb	0.17 g	Echelon III
30 lb	0.17 g	Echelon III
25 lb	0.17 g	Echelon III
20 lb	0.17 g	Echelon III
10 lb	13 mg	Echelon III
5 lb	10 mg	Echelon III
3 lb	9.3 mg	Echelon III
2 lb	6.2 mg	Echelon III
1 lb	3.0 mg	Echelon III
0.5 lb / 8 oz	3.0 mg	Echelon III
0.3 lb / 4 oz	0.39 mg	Echelon III
0.2 lb / 2 oz	0.30 mg	Echelon III
0.1 lb / 1 oz	0.17 mg	Echelon III

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0.05 lb	0.15 mg	Echelon III
0.03 lb / 1/2 oz	0.15 mg	Echelon III
0.02 lb / 1/4 oz	0.15 mg	Echelon III
0.01 lb / 1/8 oz	0.15 mg	Echelon III
0.005 lb	52 µg	Echelon III
0.003 lb / 1/16 oz	52 µg	Echelon III
0.002 lb / 1/32 oz	52 µg	Echelon III
0.001 lb	52 µg	Echelon III
100 oz t	13 mg	Echelon III
50 oz t	10 mg	Echelon III
20 oz t	9.2 mg	Echelon III
10 oz t	6.2 mg	Echelon III
5 oz t	0.39 mg	Echelon III
2 oz t	0.30 mg	Echelon III
1 oz t	0.17 mg	Echelon III
10 dwt	0.15 mg	Echelon III
5 dwt	0.15 mg	Echelon III
2 dwt	0.15 mg	Echelon III
1 dwt	52 µg	Echelon III
5 grain	52 µg	Echelon III
2 grain	52 µg	Echelon III
1 grain	52 µg	Echelon III

NVLAP Code: 20/M12

Volume

Range	Best Uncertainty (±)^{note 1}	Remarks
25 gal	13 mL	
5 gal	1.8 mL	Gravimetric
1 gal	0.70 mL	Gravimetric
0.5 gal	0.55 mL	Gravimetric
1 L	0.26 mL	Gravimetric
1 qt	0.26 mL	Gravimetric

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1 pt	0.13 mL	Gravimetric
1/2 pt	0.051 mL	Gravimetric
1 gill	0.050 mL	Gravimetric
600 gal	0.25 gal	Volume Transfer
500 gal	0.21 gal	Volume Transfer
200 gal	0.084 gal	Volume Transfer
100 gal	0.034 gal	Volume Transfer
75 gal	0.025 gal	Volume Transfer
50 gal	0.012 gal	Volume Transfer
25 gal	0.0065 gal	Volume Transfer
20 gal	0.0065 gal	Volume Transfer
5 gal	0.24 in ³	Volume Transfer

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

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