



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Washington State Department of Agriculture Metrology Laboratory

2747 29th Avenue, SW

Tumwater, WA 98512

Mr. Dan Wright

Phone: 360-753-5042 Fax: 360-586-4728

E-mail: dwright@agr.wa.gov

CALIBRATION LABORATORIES

NVLAP LAB CODE 200446-0

NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

MECHANICAL

NVLAP Code: 20/M08

Mass

Range

Best Uncertainty (\pm)^{note 1}

Remarks

Mass – Metric

30 kg	13 mg	Echelon I
20 kg	9.0 mg	Echelon I
10 kg	5.6 mg	Echelon I
5 kg	1.4 mg	Echelon I
3 kg	0.91 mg	Echelon I
2 kg	0.67 mg	Echelon I
1 kg	55 μ g	Echelon I
500 g	55 μ g	Echelon I
300 g	52 μ g	Echelon I
200 g	43 μ g	Echelon I
100 g	21 μ g	Echelon I
50 g	15 μ g	Echelon I
30 g	17 μ g	Echelon I
20 g	10 μ g	Echelon I
10 g	7.4 μ g	Echelon I
5 g	5.9 μ g	Echelon I

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200446-0

3 g	5.8 µg	Echelon I
2 g	5.7 µg	Echelon I
1 g	6.0 µg	Echelon I
500 mg	1.5 µg	Echelon I
300 mg	2.8 µg	Echelon I
200 mg	2.0 µg	Echelon I
100 mg	2.0 µg	Echelon I
50 mg	1.7 µg	Echelon I
30 mg	1.3 µg	Echelon I
20 mg	1.1 µg	Echelon I
10 mg	1.1 µg	Echelon I
5 mg	0.88 µg	Echelon I
3 mg	0.68 µg	Echelon I
2 mg	0.60 µg	Echelon I
1 mg	0.61 µg	Echelon I

Mass – Metric

30 kg	39 mg	Echelon II
25 kg	33 mg	Echelon II
20 kg	26 mg	
10 kg	14 mg	Echelon II
5 kg	6.3 mg	Echelon II
3 kg	3.8 mg	Echelon II
2 kg	2.6 mg	Echelon II
1 kg	0.88 mg	Echelon II
500 g	0.63 mg	Echelon II
300 g	0.38 mg	Echelon II
200 g	0.25 mg	Echelon II
100 g	91 µg	Echelon II
50 g	69 µg	Echelon II
30 g	43 µg	Echelon II
20 g	31 µg	Echelon II
10 g	21 µg	Echelon II
5 g	18 µg	Echelon II

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200446-0

3 g	7.2 µg	Echelon II
2 g	6.3 µg	Echelon II
1 g	7.0 µg	Echelon II
500 mg	4.5 µg	Echelon II
300 mg	3.6 µg	Echelon II
200 mg	3.3 µg	Echelon II
100 mg	3.4 µg	Echelon II
50 mg	2.8 µg	Echelon II
30 mg	2.6 µg	Echelon II
20 mg	2.5 µg	Echelon II
10 mg	2.6 µg	Echelon II
5 mg	2.4 µg	Echelon II
3 mg	2.4 µg	Echelon II
2 mg	2.3 µg	Echelon II
1 mg	2.4 µg	Echelon II

Mass – Avoirdupois

50 lb	24 mg	Echelon II
30 lb	15 mg	Echelon II
20 lb	10 mg	Echelon II
10 lb	6.3 mg	Echelon II
5 lb	1.3 mg	Echelon II
3 lb	0.82 mg	Echelon II
2 lb	0.60 mg	Echelon II
1 lb	0.11 mg	Echelon II
0.5 lb	91 µg	Echelon II
0.3 lb	81 µg	Echelon II
0.2 lb	76 µg	Echelon II
0.1 lb	91 µg	Echelon II
0.05 lb	51 µg	Echelon II
0.03 lb	36 µg	Echelon II
0.02 lb	29 µg	Echelon II
0.01 lb	29 µg	Echelon II
0.005 lb	15 µg	Echelon II

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200446-0

0.003 lb	9.0 µg	Echelon II
0.002 lb	6.2 µg	Echelon II
0.001 lb	3.7 µg	Echelon II
4 oz	0.14 mg	Echelon II
2 oz	80 µg	Echelon II
1 oz	44 µg	Echelon II
1/2 oz	30 µg	Echelon II
1/4 oz	23 µg	Echelon II
1/8 oz	9.2 µg	Echelon II
1/16 oz	8.6 µg	Echelon II
1/32 oz	5.9 µg	Echelon II

Mass – Metric

30 kg	17 mg	Echelon III
20 kg	14 mg	Echelon III
10 kg	13 mg	Echelon III
5 kg	2.4 mg	Echelon III
3 kg	2.1 mg	Echelon III
2 kg	2.1 mg	Echelon III
1 kg	0.28 mg	Echelon III
500 g	0.29 mg	Echelon III
300 g	0.29 mg	Echelon III
200 g	67 µg	Echelon III
100 g	49 µg	Echelon III
50 g	53 µg	Echelon III
30 g	47 µg	Echelon III
20 g	46 µg	Echelon III
10 g	45 µg	Echelon III
5 g	44 µg	Echelon III
3 g	17 µg	Echelon III
2 g	17 µg	Echelon III
1 g	17 µg	Echelon III
500 mg	16 µg	Echelon III
300 mg	16 µg	Echelon III

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200446-0

200 mg	16 µg	Echelon III
100 mg	16 µg	Echelon III
50 mg	16 µg	Echelon III
30 mg	16 µg	Echelon III
20 mg	16 µg	Echelon III
10 mg	16 µg	Echelon III
5 mg	16 µg	Echelon III
3 mg	16 µg	Echelon III
2 mg	16 µg	Echelon III
1 mg	16 µg	Echelon III
25 kg	0.18 g	Echelon III, Cast Iron
20 kg	0.16 g	Echelon III, Cast Iron
10 kg	48 mg	Echelon III, Cast Iron

Mass – Avoirdupois

1000 lb	1.9 g	Echelon III
500 lb	0.95 g	Echelon III
50 lb	26 mg	Echelon III
30 lb	18 mg	Echelon III
20 lb	15 mg	Echelon III
10 lb	6.6 mg	Echelon III
5 lb	2.9 mg	Echelon III
3 lb	2.1 mg	Echelon III
2 lb	0.29 mg	Echelon III
1 lb	0.29 mg	Echelon III
0.5 lb	0.29 mg	Echelon III
0.3 lb	94 µg	Echelon III
0.2 lb	88 µg	Echelon III
0.1 lb	100 µg	Echelon III
0.05 lb	67 µg	Echelon III
0.03 lb	62 µg	Echelon III
0.02 lb	53 µg	Echelon III
0.01 lb	57 µg	Echelon III

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200446-0

0.005 lb	47 µg	Echelon III
0.003 lb	19 µg	Echelon III
0.002 lb	17 µg	Echelon III
0.001 lb	16 µg	Echelon III
4 oz	53 µg	Echelon III
2 oz	58 µg	Echelon III
1 oz	51 µg	Echelon III
1/2 oz	49 µg	Echelon III
1/4 oz	47 µg	Echelon III
1/8 oz	45 µg	Echelon III
1/16 oz	45 µg	Echelon III
1/32 oz	17 µg	Echelon III
4000 lb Weight Cart	60 g	Echelon III
3000 lb Weight Cart	45 g	Echelon III
3000 lb	45 g	Special Calibration
1000 lb	4.9 g	Echelon III, Cast Iron
500 lb	2.9 g	Echelon III, Cast Iron
50 lb	0.14 g	Echelon III, Cast Iron
25 lb	54 mg	Echelon III, Cast Iron
20 lb	44 mg	Echelon III, Cast Iron
10 lb	25 mg	Echelon III, Cast Iron

NVLAP Code: 20/M12
Volume

Range	Best Uncertainty (±) ^{note 1}	Remarks
5 gal	2.3 mL	Gravimetric Method
1 gal	0.36 mL	Gravimetric Method
1/2 gal	0.30 mL	Gravimetric Method
1 qt	0.28 mL	Gravimetric Method
1 gill	0.032 mL	Gravimetric Method
2 fl oz	0.031 mL	Gravimetric Method

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200446-0

1 fl oz	0.013 mL	Gravimetric Method
1000 gal	0.26 gal	Volume Transfer Method
500 gal	0.13 gal	Volume Transfer Method
200 gal	0.053 gal	Volume Transfer Method
100 gal	0.021 gal	Volume Transfer Method
50 gal	0.011 gal	Volume Transfer Method
5 gal	0.0014 gal	Volume Transfer Method
100 gal	0.023 gal	Volume Transfer Method, LPG
20 gal	0.0039 gal	Volume Transfer Method, LPG

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

2009-01-01 through 2009-12-31

Effective dates

For the National Institute of Standards and Technology