



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Oregon Dept. of Agriculture Meas. Standards Div. Metrology Lab.

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200468-0

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>
30 kg	7.7 mg	Echelon I
20 kg	6.1 mg	Echelon I
10 kg	1.3 mg	Echelon I
5 kg	0.59 mg	Echelon I
3 kg	0.37 mg	Echelon I
2 kg	0.27 mg	Echelon I
1 kg	57 μ g	Echelon I
500 g	30 μ g	Echelon I
300 g	21 μ g	Echelon I
200 g	16 μ g	Echelon I
100 g	15 μ g	Echelon I
92.8 g	15 μ g	Echelon I
50 g	7.9 μ g	Echelon I
30 g	5.0 μ g	Echelon I
20 g	3.6 μ g	Echelon I
10 g	2.8 μ g	Echelon I

2008-10-01 through 2009-09-30

Effective dates

Sally S. Bruce

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5 g	1.4 µg	Echelon I
3 g	0.92 µg	Echelon I
2 g	0.66 µg	Echelon I
1 g	0.52 µg	Echelon I
500 mg	0.29 µg	Echelon I
300 mg	0.21 µg	Echelon I
200 mg	0.17 µg	Echelon I
100 mg	0.18 µg	Echelon I
50 mg	0.11 µg	Echelon I
30 mg	0.09 µg	Echelon I
20 mg	0.08 µg	Echelon I
10 mg	0.09 µg	Echelon I
5 mg	0.06 µg	Echelon I
3 mg	0.05 µg	Echelon I
2 mg	0.04 µg	Echelon I
1 mg	0.05 µg	Echelon I
Mass - Avoirdupois		
50 lb	7.7 mg	Echelon I
30 lb	5.4 mg	Echelon I
25 lb	5.1 mg	Echelon I
20 lb	2.0 mg	Echelon I
10 lb	1.0 mg	Echelon I
5 lb	0.45 mg	Echelon I
3 lb	0.27 mg	Echelon I
2 lb	55 µg	Echelon I
1 lb	55 µg	Echelon I
0.5 lb	42 µg	Echelon I
0.3 lb	27 µg	Echelon I
0.2 lb	19 µg	Echelon I
0.1 lb	14 µg	Echelon I
0.05 lb	7.1 µg	Echelon I
0.03 lb	4.5 µg	Echelon I
0.02 lb	3.2 µg	Echelon I
0.01 lb	2.5 µg	Echelon I
0.005 lb	1.3 µg	Echelon I
0.003 lb	0.85 µg	Echelon I

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0.002 lb	0.63 µg	Echelon I
1000 µlb	0.53 µg	Echelon I
500 µlb	0.45 µg	Echelon I
300 µlb	0.38 µg	Echelon I
200 µlb	0.37 µg	Echelon I
100 µlb	0.43 µg	Echelon I
50 µlb	0.36 µg	Echelon I
30 µlb	0.31 µg	Echelon I
20 µlb	0.30 µg	Echelon I
10 µlb	0.35 µg	Echelon I
5 µlb	0.21 µg	Echelon I
3 µlb	0.15 µg	Echelon I
2 µlb	0.13 µg	Echelon I
1 µlb	0.14 µg	Echelon I

Mass - Metric

2 kg	1.0 mg	Echelon II
1 kg	0.11 mg	Echelon II
500 g	84 µg	Echelon II
300 g	29 µg	Echelon II
200 g	36 µg	Echelon II
100 g	16 µg	Echelon II
40 g	11 µg	Echelon II
20 g	7.3 µg	Echelon II
10 g	3.8 µg	Echelon II
5 g	3.4 µg	Echelon II
2 g	1.5 µg	Echelon II
1 g	0.63 µg	Echelon II
500 mg	0.54 µg	Echelon II
200 mg	0.40 µg	Echelon II
100 mg	0.47 µg	Echelon II
50 mg	0.78 µg	Echelon II
20 mg	0.64 µg	Echelon II
10 mg	0.83 µg	Echelon II

Mass - Avoirdupois

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4 oz	32 µg	Echelon II
2 oz	11 µg	Echelon II
1 oz	7.6 µg	Echelon II
1/2 oz	6.7 µg	Echelon II
1/4 oz	2.5 µg	Echelon II
1/8 oz	1.9 µg	Echelon II
1/16 oz	1.1 µg	Echelon II
1/32 oz	0.80 µg	Echelon II
Mass – Metric		
300 kg	1.9 g	Echelon III
250 kg	1.8 g	Echelon III
200 kg	1.6 g	Echelon III
150 kg	1.0 g	Echelon III
100 kg	0.90 g	Echelon III
50 kg	80 mg	Echelon III
30 kg	16 mg	Echelon III
25 kg	15 mg	Echelon III
20 kg	15 mg	Echelon III
10 kg	14 mg	Echelon III
5 kg	3.0 mg	Echelon III
4 kg	3.0 mg	Echelon III
3 kg	3.0 mg	Echelon III
2 kg	3.0 mg	Echelon III
1 kg	2.4 mg	Echelon III
500 g	2.4 mg	Echelon III
300 g	0.15 mg	Echelon III
200 g	0.15 mg	Echelon III
100 g	0.15 mg	Echelon III
50 g	0.15 mg	Echelon III
30 g	0.14 mg	Echelon III
20 g	0.14 mg	Echelon III
10 g	0.14 mg	Echelon III
5 g	8.6 µg	Echelon III
3 g	8.5 µg	Echelon III
2 g	8.5 µg	Echelon III

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1 g	8.5 µg	Echelon III
500 mg	8.5 µg	Echelon III
300 mg	6.4 µg	Echelon III
200 mg	6.4 µg	Echelon III
100 mg	6.4 µg	Echelon III
50 mg	6.4 µg	Echelon III
30 mg	6.4 µg	Echelon III
20 mg	6.4 µg	Echelon III
10 mg	6.4 µg	Echelon III
5 mg	6.4 µg	Echelon III
3 mg	6.4 µg	Echelon III
2 mg	6.4 µg	Echelon III
1 mg	6.4 µg	Echelon III
Mass – Avoirdupois		
2000 lb	8.0 g	Echelon III – SOP 5
1000 lb	3.4 g	Echelon III – SOP 5
500 lb	1.7 g	Echelon III – SOP 5
200 lb	0.8 g	Echelon III – SOP 4
100 lb	0.11 g	Echelon III – SOP 4
5000 lb	22 g	Echelon III
4000 lb	19 g	Echelon III
3500 lb	17 g	Echelon III
3000 lb	16 g	Echelon III
2500 lb	15 g	Echelon III
2000 lb	7.9 g	Echelon III
1000 lb	3.4 g	Echelon III
500	1.7 g	Echelon III
300	1.0 g	Echelon III
250	0.91 g	Echelon III
200	0.77 g	Echelon III
150	0.49 g	Echelon III
100	0.11 g	Echelon III
80	80 mg	Echelon III
50 lb	16 mg	Echelon III
30 lb	15 mg	Echelon III

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25 lb	14 mg	Echelon III
20 lb	14 mg	Echelon III
10 lb	3.1 mg	Echelon III
5 lb	3.0 mg	Echelon III
4 lb	3.0 mg	Echelon III
3 lb	3.0 mg	Echelon III
2 lb	2.4 mg	Echelon III
1 lb	2.4 mg	Echelon III
0.5 lb	0.16 mg	Echelon III
0.3 lb	0.16 mg	Echelon III
0.2 lb	0.15 mg	Echelon III
0.1 lb	0.14 mg	Echelon III
0.05 lb	0.14 mg	Echelon III
0.03 lb	0.14 mg	Echelon III
0.02 lb	0.14 mg	Echelon III
0.01 lb	8.8 µg	Echelon III
0.005 lb	8.6 µg	Echelon III
0.003 lb	8.5 µg	Echelon III
0.002 lb	8.5 µg	Echelon III
0.001 lb	8.5 µg	Echelon III
4 oz	0.16 mg	Echelon III
2 oz	0.15 mg	Echelon III
1 oz	0.14 mg	Echelon III
1/2 oz	0.14 mg	Echelon III
1/4 oz	8.8 µg	Echelon III
1/8 oz	8.7 µg	Echelon III
1/16 oz	8.5 µg	Echelon III
1/32 oz	8.5 µg	Echelon III

NVLAP Code: 20/M12
Volume

Range in gallon
1000

Best Uncertainty (\pm) in in³ note 1
52

Remarks
Volume Transfer

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500	21	Volume Transfer
100	4.1	Volume Transfer
25	0.99	Volume Transfer
5	0.21	Volume Transfer

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

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