

National Institute  
of Standards and Technology



National Voluntary  
Laboratory Accreditation Program

ISO/IEC 17025:1999  
ISO 9002:1994

## Scope of Accreditation



Revised 7/8/2004

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200446-0

WASHINGTON STATE DEPARTMENT OF AGRICULTURE METROLOGY LABORATORY

2747 29th Avenue, SW  
Tumwater, WA 98512

Mr. Dan Wright

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### MECHANICAL

NVLAP Code: 20/M08

Mass

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
1 kg	0.10 mg	Echelon I
500 g	0.076 mg	Echelon I
300 g	0.066 mg	Echelon I
200 g	0.061 mg	Echelon I
100 g	0.072 mg	Echelon I
50 g	0.036 mg	Echelon I
30 g	0.022 mg	Echelon I
20 g	0.016 mg	Echelon I
10 g	0.010 mg	Echelon I
5 g	0.012 mg	Echelon I
3 g	0.0073 mg	Echelon I

December 31, 2004

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### CALIBRATION LABORATORIES

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### WASHINGTON STATE DEPARTMENT OF AGRICULTURE METROLOGY LABORATORY

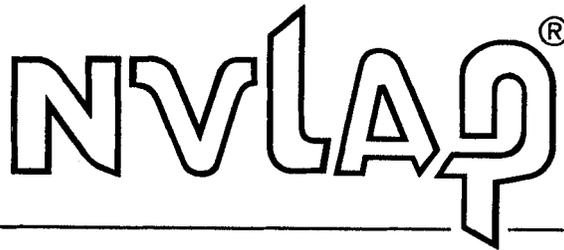
2 g	0.0060 mg	Echelon I
1 g	0.0053 mg	Echelon I
500 mg	0.0041 mg	Echelon I
300 mg	0.0025 mg	Echelon I
200 mg	0.0016 mg	Echelon I
100 mg	0.0012 mg	Echelon I
50 mg	0.00092 mg	Echelon I
30 mg	0.00078 mg	Echelon I
20 mg	0.00074 mg	Echelon I
10 mg	0.00086 mg	Echelon I
5 mg	0.00072 mg	Echelon I
3 mg	0.00064 mg	Echelon I
2 mg	0.00064 mg	Echelon I
1 mg	0.00072 mg	Echelon I
1000 lb	2.5 g	Echelon II
500 lb	1.5 g	Echelon II
50 lb	56 mg	Echelon II

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20 lb	24 mg	Echelon II
30 kg	96 mg	Echelon II
25 kg	72 mg	Echelon II
20 kg	60 mg	Echelon II
10 kg	51 mg	Echelon II
5 kg	19 mg	Echelon II
3 kg	8.2 mg	Echelon II
2 kg	6.3 mg	Echelon II
1 kg	0.27 mg	Echelon II
500 g	0.16 mg	Echelon II
300 g	0.13 mg	Echelon II
200 g	0.14 mg	Echelon II
100 g	0.092 mg	Echelon II
50 g	0.044 mg	Echelon II
30 g	0.037 mg	Echelon II
20 g	0.018 mg	Echelon II

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A handwritten signature in black ink, appearing to read 'William R. Muhl'.

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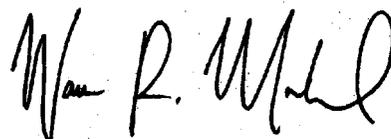
### CALIBRATION LABORATORIES

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10 g	0.015 mg	Echelon II
5 g	0.0091 mg	Echelon II
3 g	0.0051 mg	Echelon II
2 g	0.0077 mg	Echelon II
1 g	0.0092 mg	Echelon II
500 mg	0.0044 mg	Echelon II
300 mg	0.0028 mg	Echelon II
200 mg	0.0022 mg	Echelon II
100 mg	0.0018 mg	Echelon II
50 mg	0.0013 mg	Echelon II
30 mg	0.0012 mg	Echelon II
20 mg	0.0014 mg	Echelon II
10 mg	0.0015 mg	Echelon II
5 mg	0.0015 mg	Echelon II
3 mg	0.00095 mg	Echelon II
2 mg	0.00095 mg	Echelon II
1 mg	0.0010 mg	Echelon II

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### WASHINGTON STATE DEPARTMENT OF AGRICULTURE METROLOGY LABORATORY

25 kg	0.13 g	Echelon III
20 kg	0.12 g	Echelon III
10 kg	0.12 mg	Echelon III
5 kg	0.12 mg	Echelon III
3 kg	8.2 mg	Echelon III
2 kg	6.2 mg	Echelon III
1 kg	1.7 mg	Echelon III
500 g	1.7 mg	Echelon III
400 g	1.7 mg	Echelon III
300 g	1.7 mg	Echelon III
200 g	0.1 mg	Echelon III
100 g	0.098 mg	Echelon III
50 g	0.076 mg	Echelon III
30 g	0.071 mg	Echelon III
20 g	0.069 mg	Echelon III
10 g	0.068 mg	Echelon III
5 g	0.068 mg	Echelon III

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3 g	0.0066 mg	Echelon III
2 g	0.0091 mg	Echelon III
1 g	0.010 mg	Echelon III
500 mg	0.0073 mg	Echelon III
300 mg	0.0065 mg	Echelon III
200 mg	0.0063 mg	Echelon III
100 mg	0.0061 mg	Echelon III
50 mg	0.0061 mg	Echelon III
30 mg	0.0061 mg	Echelon III
20 mg	0.0061 mg	Echelon III
10 mg	0.0061 mg	Echelon III
5 mg	0.0060 mg	Echelon III
3 mg	0.0060 mg	Echelon III
2 mg	0.0060 mg	Echelon III
1 mg	0.0061 mg	Echelon III
1000 lb	4.1 g	Echelon III
500 lb	2.6 g	Echelon III

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100 lb	0.10 g	Echelon III
50 lb	0.10 g	Echelon III
40 lb	0.10 g	Echelon III
30 lb	0.12 g	Echelon III
25 lb	0.12 g	Echelon III
20 lb	0.12 g	Echelon III
15 lb	0.12 g	Echelon III
10 lb	0.12 g	Echelon III
5 lb	3.5 g	Echelon III
3 lb	2.5 g	Echelon III
2 lb	1.7 mg	Echelon III
1 lb	1.7 mg	Echelon III
0.5 lb	1.7 mg	Echelon III
0.3 lb	0.11 mg	Echelon III
0.2 lb	0.11 mg	Echelon III
0.1 lb	0.12 mg	Echelon III

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0.05 lb	0.097 mg	Echelon III
0.03 lb	0.089 mg	Echelon III
0.02 lb	0.086 mg	Echelon III
0.01 lb	0.092 mg	Echelon III
0.005 lb	0.074 mg	Echelon III
0.003 lb	0.020 mg	Echelon III
0.002 lb	0.014 mg	Echelon III
0.001 lb	0.0087 mg	Echelon III
4 oz	0.086 mg	Echelon III
2 oz	0.087 mg	Echelon III
1 oz	0.085 mg	Echelon III
1/2 oz	0.077 mg	Echelon III
1/4 oz	0.070 mg	Echelon III
1/8 oz	0.068 mg	Echelon III
1/16 oz	0.070 mg	Echelon III
1/32 oz	0.079 mg	Echelon III

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### WASHINGTON STATE DEPARTMENT OF AGRICULTURE METROLOGY LABORATORY

4000 lb Weight Cart	95 g	Echelon III
3000 lb Weight Cart	88 g	Echelon III
2000 lb Weight Cart	29 g	Echelon III

**NVLAP Code:** 20/M12  
Volume

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
5 gal	0.0011 gal	Gravimetric Method
1 gal	0.00054 gal	Gravimetric Method
0.5 gal	0.00050 gal	Gravimetric Method
1000 gal	0.39 gal	Volume Transfer Method
750 gal	0.28 gal	Volume Transfer Method
500 gal	0.20 gal	Volume Transfer Method
200 gal	0.080 gal	Volume Transfer Method
100 gal	0.040 gal	Volume Transfer Method
50 gal	0.017 gal	Volume Transfer Method
20 gal	0.0078 gal	Volum Transfer Method
5 gal	0.0026 gal	Volume Transfer Method

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1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

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A handwritten signature in black ink, appearing to read 'William R. Mohler'. The signature is written in a cursive style with a large, prominent 'W' and 'M'.

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