

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation



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CALIBRATION LABORATORIES

NVLAP LAB CODE 200468-0

OREGON DEPT. OF AGRICULTURE MEAS. STANDARDS DIV. METROLOGY LAB.

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MECHANICAL

NVLAP Code: 20/M08

Mass

Range	Best Uncertainty (\pm) in mg ^{note 1}	Remarks
30 kg	22	Echelon I
20 kg	15	Echelon I
10 kg	10	Echelon I
5 kg	0.84	Echelon I
3 kg	0.51	Echelon I
2 kg	0.37	Echelon I
1 kg	0.10	Echelon I

September 30, 2005

A handwritten signature in black ink that reads "Walter R. Marshall".

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500 g	0.050	Echelon I
300 g	0.039	Echelon I
200 g	0.030	Echelon I
100 g	0.029	Echelon I
50 g	0.016	Echelon I
30 g	0.011	Echelon I
20 g	0.0089	Echelon I
10 g	0.0088	Echelon I
5 g	0.0046	Echelon I
3 g	0.0030	Echelon I
2 g	0.0023	Echelon I
1 g	0.0020	Echelon I

September 30, 2005

A handwritten signature in black ink, appearing to read "Wm R. Muhl".

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500 mg	0.0011	Echelon I
300 mg	0.00072	Echelon I
200 mg	0.00058	Echelon I
100 mg	0.00055	Echelon I
50 mg	0.00048	Echelon I
30 mg	0.00041	Echelon I
20 mg	0.00040	Echelon I
10 mg	0.00047	Echelon I
5 mg	0.00033	Echelon I
3 mg	0.00027	Echelon I
2 mg	0.00025	Echelon I
1 mg	0.00028	Echelon I
2 kg	1.5	Echelon II
1 kg	0.56	Echelon II
500 g	0.29	Echelon II
300 g	0.47	Echelon II

September 30, 2005

A handwritten signature in black ink, appearing to read "Wm. R. Mahr".

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200 g	0.12	Echelon II
100 g	0.064	Echelon II
50 g	0.036	Echelon II
20 g	0.015	Echelon II
10 g	0.011	Echelon II
5 g	0.0063	Echelon II
2 g	0.0030	Echelon II
1 g	0.0022	Echelon II
500 mg	0.0029	Echelon II
200 mg	0.0020	Echelon II
100 mg	0.00087	Echelon II
50 mg	0.0010	Echelon II
20 mg	0.00082	Echelon II
10 mg	0.0011	Echelon II
30 kg	40	Echelon III
20 kg	37	Echelon III

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A handwritten signature in black ink, appearing to read "Wm. R. Muhl".

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10 kg	15	Echelon III
5 kg	1.6	Echelon III
3 kg	1.4	Echelon III
2 kg	1.4	Echelon III
1 kg	1.4	Echelon III
500 g	1.3	Echelon III
300 g	0.11	Echelon III
200 g	0.10	Echelon III
100 g	0.10	Echelon III
50 g	0.13	Echelon III
30 g	0.13	Echelon III
20 g	0.13	Echelon III
10 g	0.13	Echelon III
5 g	0.0062	Echelon III
3 g	0.0051	Echelon III
2 g	0.0047	Echelon III
1 g	0.0046	Echelon III

September 30, 2005

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500 mg	0.0037	Echelon III
300 mg	0.0036	Echelon III
200 mg	0.0036	Echelon III
100 mg	0.0036	Echelon III
50 mg	0.0028	Echelon III
30 mg	0.0028	Echelon III
20 mg	0.0028	Echelon III
10 mg	0.0028	Echelon III
5 mg	0.0028	Echelon III
3 mg	0.0028	Echelon III
2 mg	0.0028	Echelon III
1 mg	0.0028	Echelon III
50 lb	46	Echelon III
30 lb	22	Echelon III
20 lb	17	Echelon III
10 lb	8.4	Echelon III
5 lb	1.7	Echelon III

September 30, 2005

A handwritten signature in black ink, appearing to read "William R. Moulton".

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3 lb	1.6	Echelon III
2 lb	1.5	Echelon III
1 lb	1.3	Echelon III
0.5 lb	0.12	Echelon III
0.3 lb	0.11	Echelon III
0.2 lb	0.13	Echelon III
0.1 lb	0.13	Echelon III
0.05 lb	0.13	Echelon III
0.03 lb	0.13	Echelon III
0.02 lb	0.10	Echelon III
0.01 lb	0.0061	Echelon III
0.005 lb	0.0051	Echelon III
0.003 lb	0.0047	Echelon III
0.002 lb	0.0079	Echelon III
0.001 lb	0.0043	Echelon III
4 oz	0.23	Echelon III
2 oz	0.16	Echelon III

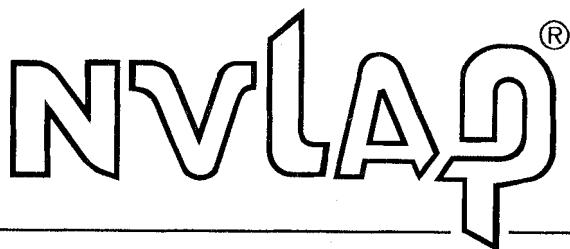
September 30, 2005

A handwritten signature in black ink, appearing to read "Wm R. Mall".

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1 oz	0.14	Echelon III
1/2 oz	0.13	Echelon III
1/4 oz	0.015	Echelon III
1/8 oz	0.011	Echelon III
1/16 oz	0.0060	Echelon III
1/32 oz	0.0082	Echelon III

Range in lbs	Best Uncertainty (\pm) in grams ^{note 1}	Remarks
2000	21	Echelon III
1000	6.6	Echelon III
500	3.3	Echelon III

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MECHANICAL

NVLAP Code: 20/M12

Volume

<i>Range in gallon</i>	<i>Best Uncertainty (\pm) in in³^{note 1}</i>	<i>Remarks</i>
1000	57	
500	25	
100	5.2	
25	1.3	
5	0.24	

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

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