



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**New Mexico Department of Agriculture Metrology Laboratory**

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**CALIBRATION LABORATORIES**

**NVLAP LAB CODE 200647-0**

Scope Revised: 2011-04-04

*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 (±) <sup>note 1</sup></i>	<i>Remarks</i>
30 kg	12 mg	Echelon II
20 kg	8.0 mg	Echelon II
10 kg	2.7 mg	Echelon II
5 kg	2.3 mg	Echelon II
3 kg	1.5 mg	Echelon II
2 kg	0.69 mg	Echelon II
1 kg	0.17 mg	Echelon II
500 g	93 µg	Echelon II
300 g	95 µg	Echelon II
200 g	56 µg	Echelon II
100 g	35 µg	Echelon II
50 g	14 µg	Echelon II
30 g	10 µg	Echelon II
20 g	10 µg	Echelon II
10 g	10 µg	Echelon II

2011-04-04 through 2011-12-31

*Effective dates*

*Sally S. Bruce*

*For the National Institute of Standards and Technology*



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<i>Range</i>	<i>Best Uncertainty (±) <sup>note 1</sup></i>	<i>Remarks</i>
5 g	3.8 µg	Echelon II
3 g	3.1 µg	Echelon II
2 g	2.5 µg	Echelon II
1 g	1.8 µg	Echelon II
500 mg	1.2 µg	Echelon II
300 mg	1.2 µg	Echelon II
200 mg	2.1 µg	Echelon II
100 mg	2.0 µg	Echelon II
50 mg	1.1 µg	Echelon II
30 mg	1.1 µg	Echelon II
20 mg	0.74 µg	Echelon II
10 mg	0.94 µg	Echelon II
5 mg	0.68 µg	Echelon II
3 mg	0.67 µg	Echelon II
2 mg	0.58 µg	Echelon II
1 mg	0.60 µg	Echelon II

Mass – Avoirdupois

1000 lb	1.4 g	Echelon II
500 lb	0.65 g	Echelon II
50 lb	11 mg	Echelon II
25 lb	10 mg	Echelon II
20 lb	2.9 mg	Echelon II
10 lb	2.3 mg	Echelon II
5 lb	1.6 mg	Echelon II
3 lb	0.77 mg	Echelon II
2 lb	0.19 mg	Echelon II
1 lb	0.11 mg	Echelon II
0.5 lb	0.11 mg	Echelon II
0.3 lb	71 µg	Echelon II
0.2 lb	41 µg	Echelon II
0.1 lb	19 µg	Echelon II

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0.05 lb	15 µg	Echelon II
0.03 lb	15 µg	Echelon II
0.02 lb	12 µg	Echelon II
0.01 lb	6.1 µg	Echelon II
0.005 lb	4.7 µg	Echelon II
0.003 lb	5.0 µg	Echelon II
0.002 lb	3.8 µg	Echelon II
0.001 lb	3.1 µg	Echelon II
8 oz	0.11 mg	Echelon II
4 oz	74 µg	Echelon II
2 oz	47 µg	Echelon II
1 oz	13 µg	Echelon II
1/2 oz	13 µg	Echelon II
1/4 oz	6.9 µg	Echelon II
1/8 oz	4.0 µg	Echelon II
1/16	4.0 µg	Echelon II
1/32	3.5 µg	Echelon II
Mass – Metric		
50 kg	0.70 g	Echelon III
30 kg	0.18 g	Echelon III
20 kg	0.18 g	Echelon III
10 kg	0.18 g	Echelon III
5 kg	14 mg	Echelon III
3 kg	10 mg	Echelon III
2 kg	9.3 mg	Echelon III
1 kg	5.7 mg	Echelon III
500 g	3.1 mg	Echelon III
300 g	3.1 mg	Echelon III
200 g	0.43 mg	Echelon III
100 g	0.19 mg	Echelon III

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<i>Range</i>	<i>Best Uncertainty (±) <sup>note 1</sup></i>	<i>Remarks</i>
50 g	0.13 mg	Echelon III
30 g	0.11 mg	Echelon III
20 g	0.11 mg	Echelon III
10 g	55 µg	Echelon III
5 g	55 µg	Echelon III
3 g	52 µg	Echelon III
2 g	52 µg	Echelon III
1 g	52 µg	Echelon III
500 mg	52 µg	Echelon III
300 mg	49 µg	Echelon III
200 mg	49 µg	Echelon III
100 mg	49 µg	Echelon III
50 mg	37 µg	Echelon III
30 mg	37 µg	Echelon III
20 mg	37 µg	Echelon III
10 mg	31 µg	Echelon III
5 mg	31 µg	Echelon III
3 mg	31 µg	Echelon III
2 mg	31 µg	Echelon III
1 mg	33 µg	Echelon III
Mass – Avoirdupois		
5000 lb	47 g	Echelon III
4000 lb	47 g	Echelon III
3500 lb	47 g	Echelon III
2500 lb	30 g	Echelon III
2000 lb	30 g	Echelon III
1000 lb	4.1 g	Echelon III
500 lb	3.1 g	Echelon III
100 lb	0.70 g	Echelon III
50 lb	0.19 g	Echelon III
30 lb	0.19 g	Echelon III

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<i>Range</i>	<i>Best Uncertainty (±) <sup>note 1</sup></i>	<i>Remarks</i>
25 lb	0.19 g	Echelon III
20 lb	0.19 g	Echelon III
10 lb	14 mg	Echelon III
5 lb	10 mg	Echelon III
3 lb	9.5 mg	Echelon III
2 lb	5.7 mg	Echelon III
1 lb	3.2 mg	Echelon III
0.5 lb / 8 oz	3.1 mg	Echelon III
0.3 lb / 4 oz	0.38 mg	Echelon III
0.2 lb / 2 oz	0.16 mg	Echelon III
0.1 lb / 1 oz	0.12 mg	Echelon III
0.05 lb	0.11 mg	Echelon III
0.03 lb / 1/2 oz	0.11 mg	Echelon III
0.02 lb / 1/4 oz	55 µg	Echelon III
0.01 lb / 1/8 oz	54 µg	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	14 mg	Echelon III
50 oz t	10 mg	Echelon III
20 oz t	9.1 mg	Echelon III
10 oz t	5.6 mg	Echelon III
5 oz t	0.38 mg	Echelon III
2 oz t	0.16 mg	Echelon III
1 oz t	0.13 mg	Echelon III
10 dwt	0.11 mg	Echelon III
5 dwt	55 µg	Echelon III
2 dwt	54 µg	Echelon III
1 dwt	52 µg	Echelon III

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5 grain	52 $\mu$ g	Echelon III
2 grain	52 $\mu$ g	Echelon III
1 grain	52 $\mu$ g	Echelon III

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

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