



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

State of California Metrology Laboratory

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200791-0

DIMENSIONAL

NVLAP Code: 20/D13

Surveying Rods and Tapes

<i>Range in ft</i>	<i>Best Uncertainty (±) in ft ^{note 1}</i>	<i>Remarks</i>
1	0.00077	Tape to Tape
2	0.00082	Tape to Tape
3	0.00081	Tape to Tape
4	0.00083	Tape to Tape
5	0.00086	Tape to Tape
6	0.00079	Tape to Tape
7	0.00080	Tape to Tape
8	0.00078	Tape to Tape
9	0.00082	Tape to Tape
10	0.00083	Tape to Tape
20	0.00083	Tape to Tape
30	0.00092	Tape to Tape
40	0.00085	Tape to Tape
50	0.00086	Tape to Tape
60	0.0012	Tape to Tape
70	0.0012	Tape to Tape
80	0.0013	Tape to Tape

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



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90	0.0013	Tape to Tape
100	0.0015	Tape to Tape

TIME AND FREQUENCY

NVLAP Code: 20/F02
Time Dissemination

Range	Best Uncertainty (\pm) ^{note 1}	Remarks
3 hr	0.073 s	

MECHANICAL

NVLAP Code: 20/M08
Mass- Metric

Range	Best Uncertainty (\pm) in mg ^{note 1}	Remarks
2 kg	2.5	Echelon II
1 kg	1.1	Echelon II
500 g	0.56	Echelon II
200g	0.23	Echelon II
100 g	0.12	Echelon II
50 g	0.060	Echelon II
20 g	0.030	Echelon II
10 g	0.015	Echelon II
5 g	0.0095	Echelon II
2 g	0.0053	Echelon II
1 g	0.0022	Echelon II
500 mg	0.0024	Echelon II
200 mg	0.0021	Echelon II
100 mg	0.0013	Echelon II
50 mg	0.0012	Echelon II
20 mg	0.0020	Echelon II
10 mg	0.0013	Echelon II
5 mg	0.0010	Echelon II
2 mg	0.00094	Echelon II
1 mg	0.00076	Echelon II
30 kg	336	Echelon III
25 kg	393	Echelon III
20 kg	393	Echelon III

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10 kg	120	Echelon III
5 kg	26	Echelon III
3 kg	26	Echelon III
2 kg	13	Echelon III
1 kg	5.7	Echelon III
500 g	6.0	Echelon III
300 g	3.3	Echelon III
200 g	2.2	Echelon III
100 g	0.69	Echelon III
50 g	0.69	Echelon III
30 g	0.072	Echelon III
20 g	0.067	Echelon III
10 g	0.065	Echelon III
5 g	0.065	Echelon III
3 g	0.064	Echelon III
2 g	0.064	Echelon III
1 g	0.057	Echelon III
500 mg	0.056	Echelon III
300 mg	0.056	Echelon III
200 mg	0.073	Echelon III
100 mg	0.082	Echelon III
50 mg	0.082	Echelon III
30 mg	0.0062	Echelon III
20 mg	0.0063	Echelon III
10 mg	0.0061	Echelon III
5 mg	0.0062	Echelon III
3 mg	0.0063	Echelon III
2 mg	0.0061	Echelon III
1 mg	0.0059	Echelon III

Mass – Avoirdupois

30 lb	116	Echelon III
20 lb	115	Echelon III
10 lb	57	Echelon III
5 lb	56	Echelon III
4 lb	10	Echelon III
3 lb	12	Echelon III
2 lb	5.6	Echelon III

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1 lb	4.8	Echelon III
0.5 lb	2.1	Echelon III
0.3 lb	0.68	Echelon III
0.2 lb	0.68	Echelon III
0.1 lb	0.68	Echelon III
0.05 lb	0.067	Echelon III
0.03 lb	0.066	Echelon III
0.02 lb	0.065	Echelon III
0.01 lb	0.065	Echelon III
0.005 lb	0.065	Echelon III
0.003 lb	0.065	Echelon III
0.002 lb	0.057	Echelon III
0.001 lb	0.057	Echelon III
8 oz	2.2	Echelon III
4 oz	0.69	Echelon III
2 oz	0.68	Echelon III
1 oz	0.68	Echelon III
1/2 oz	0.066	Echelon III
1/4 oz	0.065	Echelon III
1/8 oz	0.065	Echelon III
1/16 oz	0.062	Echelon III
1/32 oz	0.062	Echelon III
0.5 oz	0.067	Echelon III
0.3 oz	0.065	Echelon III
0.2 oz	0.065	Echelon III
0.1 oz	0.065	Echelon III
0.05 oz	0.064	Echelon III
0.03 oz	0.062	Echelon III
0.02 oz	0.062	Echelon III
0.01 oz	0.062	Echelon III
2500 lb	11167	Echelon III Frasier Balance
1000 lb	5813	Echelon III Russell Balance
500 lb	2587	Echelon III Russell Balance
50 lb	257	Echelon III Lab
50 lb	134	Echelon III Field
25 lb	142	Echelon III Lab

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25 lb 122 Echelon III Field

NVLAP Code: 20/M12

Volume

Range	Best Uncertainty (\pm) in mL ^{note 1}	Remarks
20 L	3.2	Volume Transfer
2 L	0.39	Volume Transfer
1 L	0.29	Volume Transfer
500 mL	0.13	Volume Transfer
200 mL	0.11	Volume Transfer
100 mL	0.10	Volume Transfer
1 gal	0.50	Volume Transfer
1/2 gal	0.44	Volume Transfer
1 quart	0.20	Volume Transfer
1 pint	0.21	Volume Transfer
1/2 pint	0.16	Volume Transfer
1 gill	0.14	Volume Transfer

Range	Best Uncertainty (\pm) in in ³ note 1	Remarks
1000 gal	38	Volume Transfer (100 gal std)
500 gal	26	Volume Transfer (50 gal std)
300 gal	10	Volume Transfer (100 gal std)
300 gal	13	Volume Transfer (50 gal std)
200 gal	10	Volume Transfer (100 gal std)
200 gal	12	Volume Transfer (50 gal std)
100 gal	5.5	Volume Transfer (50 gal std)
50 gal	2.6	Volume Transfer (50 gal std)
50 gal	2.0	Volume Transfer (5 gal Slicker)

5 gal	0.23	Volume Transfer (5 gal Slicker)
1 gal	0.12	Volume Transfer (1 gal Conical Slicker)

Range	Best Uncertainty (\pm) in mL ^{note 1}	Remarks
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20 L	2.81	Gravimetric
2 L	0.32	Gravimetric
1 L	0.19	Gravimetric
500 mL	0.072	Gravimetric
200 mL	0.058	Gravimetric
100 mL	0.032	Gravimetric
5 gal	2.3	Gravimetric
1 gal	0.44	Gravimetric
1/2 gal	0.31	Gravimetric
1 quart	0.18	Gravimetric
1 pint	0.12	Gravimetric
1/2 pint	0.067	Gravimetric
1 gill	0.066	Gravimetric

THERMODYNAMIC

NVLAP Code: 20/T03

Laboratory Thermometers

<i>Range in °F</i>	<i>Best Uncertainty (±) in °F^{note 1}</i>	<i>Remarks</i>
32 to 59	0.15	
60 to 89	0.16	
90 to 119	0.16	
120	0.16	

<i>Range in °C</i>	<i>Best Uncertainty (±) in °C^{note 1}</i>	<i>Remarks</i>
0 to 15	0.09	
15.56 to 31.67	0.09	
32.22 to 48.33	0.09	
48.89	0.09	

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

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