

**WEIGHTS & MEASURES  
RESOURCES**

California Department  
of Food and Agriculture (CDFA)  
Division of Measurement Standards  
<https://www.cdffa.ca.gov/dms/>

National Institute of  
Standards and Technology  
Office of Weights and Measures  
Laboratory Metrology Program  
<http://www.nist.gov/labmetrology/>

National Conference on  
Weights and Measures  
<http://www.ncwm.net>



Troemner Equal-Arm Balance



Sartorius 1801 Balance

**COUNTY OF LOS ANGELES**



Department of  
Agricultural Commissioner /  
Weights & Measures

[acwm.lacounty.gov](http://acwm.lacounty.gov)

**METROLOGY LABORATORY**

South Gate Office  
(562) 622-0419

Headquarters Office  
12300 Lower Azusa Road  
Arcadia, CA 91006  
Voice: (626) 575-5471  
Fax: (626) 350-3243

South Gate Office  
11012 Garfield Avenue  
South Gate, CA 90280  
Voice: (562) 622-0402  
Fax: (562) 861-0278



This information is available  
in alternative formats.

For further assistance:  
TDD (626) 575-5520  
Voice: (626) 575-5471  
Fax: (626) 350-3243

October 2016

Department of  
Agricultural Commissioner /  
Weights & Measures



**METROLOGY  
LABORATORY  
CALIBRATION SERVICES**



**COUNTY OF LOS ANGELES**



## ABOUT THE LABORATORY

The Los Angeles County Metrology Laboratory maintains the reference and field standards of mass and volume for the County of Los Angeles. These standards are traceable to the International System of Units (SI), through inter-comparisons, to the standards maintained at the National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland. The standards at NIST are, in turn, traceable to the International Prototype Kilogram, which is kept at the International Bureau of Weights and Measures (BIPM) in Sèvres, France.

The Metrology Laboratory is responsible for calibration of field standards used by weights and measures inspectors in the testing of commercial measuring and weighing devices that are in use in the County of Los Angeles. It also offers fee-based calibration services to customers in the areas of mass and volume.



MASS STANDARDS

## CALIBRATION SERVICES

Save time on your next test or certification by doing the following **BEFORE** you bring your equipment into the lab:

**Make An Appointment:** No standards or equipment will be accepted without an appointment. This ensures that prompt, quality service will be provided to each customer.

**Please call for an appointment or quote:**  
(562) 622-0419

### Mass Calibration Scope

Echelon III  
25 kg to 100 g  
1,000 lb to 1 lb  
8 oz to 4 oz



### Volume Calibration Scope

Volume Transfer II  
5 gallons



## PRE-CALIBRATION PREPARATION

**Bring Them In Clean!** Weights and other devices must be free from all foreign matter, such as dirt, rust, concrete, grease and other adhering substances. The following are cleaning and painting tips:

### CAST IRON WEIGHTS:

If needed, weights of 25 pounds or more should be thoroughly cleaned with a wire brush and freshly painted. If a weight shows any sign of chipping paint, the weight should be cleaned with paint remover. **DO NOT** sand or shot blast cast iron weights; this method of cleaning removes metal as well as paint and could result in the weight being rejected. When weights are freshly painted, it is strongly recommended that a thin coat of aluminum paint be used, not an enamel-based paint. Enamel paint is not recommended due to its tendency for surface peeling.

### STAINLESS STEEL WEIGHTS:

Weights should be cleaned with ethyl alcohol to remove all extraneous matter. Care should be taken to avoid leaving film on the weight and to prevent the entrance of alcohol into the adjustment cavity. **DO NOT** use alcohol on lacquered and/or plated weights.

### VOLUME STANDARDS (GASOLINE STANDARDS):

All volume standards must be free from all foreign matter and should be cleaned thoroughly with a non-foaming detergent. Depending on the condition of the surface, a vigorous cleaning of all inner surfaces may have to be repeated to ensure removal of oily film and residue is complete. Dents must be removed and leaks must be repaired. Gauge tubes, reading scales and other test measure components must be in working order and in good condition.