



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

E & J GALLO WINERY
600 Yosemite Boulevard
Modesto, CA 95354
Ms. Sonia Parmar Phone: 209 341 3234

CHEMICAL

Valid To: November 30, 2019

Certificate Number: 1403.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above as well as the satellite laboratory locations listed below to perform the following tests on beverages (including alcoholic beverages):

USING THE FOLLOWING TECHNOLOGIES:

Chromatography

Gas Chromatography/Flame Ionization Detector (GC/FID)
Gas Chromatography/Mass Spectroscopy (GC/MS)
Gas Chromatography/ Mass Spectroscopy/Mass Spectroscopy (GC/MS/MS)
High Performance Liquid Chromatography (HPLC)
Liquid Chromatography/Mass Spectroscopy/ Mass Spectroscopy (LC/MS/MS)
Ion Chromatography (IC)

Miscellaneous

Densitometry
Potentiometry
ELISA
Ion Specific Electrode (ISE)
Multiple Volume Expansion

Spectroscopy

Luminescence Probe
FTIR
NIR
Flow Injection- Visible Spectroscopy (VIS)
Automated Sequential Ultraviolet/Visible Spectroscopy (UV/VIS)
Inductively Coupled Plasma/Optical Emission (ICP/OES)
Inductively Coupled Plasma/Mass Spectroscopy (ICP/MS)

Wet Chemistry

Titrametric (Volumetric)
Gravimetric

PERFORMING THE FOLLOWING TESTS:

| <u>Method Number</u> | <u>Test/Technology(ies)</u> |
|-----------------------------|---|
| WI - 00001 | Alcohol by GC/FID |
| WI - 00004 | Measurement of TA and pH by Potentiometric Auto-Titration |
| WI - 00005 | Dry Extract of Wine by Calculation |
| WI - 00006 | Glucose/Fructose/Sucrose by HPLC/Refractive Index |
| WI - 00009 | Fluoride in Wine by ISE - Known Addition |
| WI - 00010 | Determination of pH by pH Meter by Potentiometry |
| WI - 00011 | Acetaldehyde, Ethyl Acetate, Methanol, and Fusel Oil by GC/FID |
| WI - 00012 | Acetic Acid by Automated Enzymatic Analysis by UV/VIS |
| WI - 00015 | 2,4,6-Trichloroanisole by GC/MS |
| WI - 00016 | 4-Ethylphenol and 4-Ethylguaiacol by GC/MS |
| WI - 00017 | Malic Acid by Automated Enzymatic Analysis by UV/VIS |
| WI - 00018 | Glucose/Fructose by Automated Enzymatic Analysis by UV/VIS |
| WI - 00019 | Citric Acid by Automated Enzymatic Analysis by UV/VIS |
| WI - 00020 | Total Sulfur Dioxide (SO ₂) by Automated Colorimetric Analysis by UV/VIS |
| WI - 00021 | Free Sulfur Dioxide (SO ₂) by Automated Colorimetric Analysis by UV/VIS |
| WI - 00022 | Density, Specific Gravity, and Balling by Densitometer |
| WI - 00026 | Sorbic Acid by HPLC/UV |
| WI - 00028 | CO ₂ /O ₂ Determination by Carbo/Oxy QC Analysis |
| WI - 00029 | Metals in Wine by ICP/MS |
| WI - 00030 | Free and Total Sulfur Dioxide (SO ₂) by Flow Injection Analysis by UV/VIS |
| WI - 00032 | Metals in Wine and Juice by ICP/OES |
| WI - 00117 | Tartaric Acid by HPLC/UV |
| WI - 00128 | Tannins (Total Phenols) by Automated Colorimetric Analysis by UV/VIS |
| WI - 00131 | Allergen Analyses by ELISA |
| WI - 00138 | Ethanol, pH, Residual Sugar, TA, and Volatile Acidity by Foss FTIR |
| WI - 00156 | Oak Aroma by GC/MS |
| WI - 00161 | Pesticides by LC/MS/MS |
| WI - 00171 | Determination of Ash Content and Extract in Wine and Spirits |
| WI - 00175 | Multi-Residue Pesticide Analysis by GC/MS/MS |
| WI - 00184 | Ochratoxin A by LC/MS/MS |
| WI - 00187 | Anions in Wine by IC |
| WI-00189 | Analysis of Wine for Alcohol and Density by Wine Alcoalyzer and DMA |
| WI-00192 | Allergen ELISA Testing on NIMBUS |



¹ This accreditation covers testing performed at the main laboratory listed above, and the following satellite laboratory listed below:

E & J GALLO WINERY
200 Yosemite Boulevard
Modesto, CA 95354

| <u>Method Number</u> | <u>Test/Technology(ies)</u> |
|-----------------------------|--|
| WI - 00001 | Alcohol by GC/FID |
| WI - 00004 | Measurement of TA and pH by Potentiometric Auto-Titration |
| WI - 00006 | Glucose/Fructose/Sucrose by HPLC/Refractive Index |
| WI - 00010 | Determination of pH by pH Meter by Potentiometry |
| WI - 00011 | Acetaldehyde, Ethyl Acetate, Methanol, and Fusel Oil by GC/FID |
| WI - 00022 | Density, Specific Gravity, and Balling by Densitometer |
| WI - 00025 | Proof by Distillation by Densitometer |
| WI - 00031 | Ethanol and Proof in Spirits by NIR and DMA |
| WI - 00105 | Measurement of Titratable Acidity and pH in Spirits by Potentiometric Auto-Titration |





Accredited Laboratory

A2LA has accredited

E & J GALLO WINERY

Modesto, CA

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 3rd day of November 2017.

A blue ink signature of the President and CEO.

President and CEO
For the Accreditation Council
Certificate Number 1403.01
Valid to November 30, 2019
Revised January 25, 2019

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.