SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Baker Wine & Grape Analysis, Inc.
825 Riverside Ave. #3
Paso Robles, CA 93446
Heather Mikelonis Phone: 805-226-8386

CHEMICAL

Valid To: June 30, 2026 Certificate Number: 7198.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the chemical tests and assays listed below on wine, juice, olive oil, beer, spirits, cider, sake, kombucha, vinegar and hydrogen peroxide:

| **Test/Technology** | **Test Method(s)** |
|---|---|
| Acetic Acid by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Acetic Acid Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.011) |
| Alcohol Bench Trial by Densitometer | BWGA Method (MET.BWGA.NIR.GEN.132) |
| Alcohol Bench Trial by NIR | BWGA Method (MET.BWGA.NIR.GEN.122) |
| Alcohol by GC | BWGA Method (MET.BWGA.GCH.ALC.182) |
| Alcohol by Volume @ 20°C by NIR | BWGA Method (MET.BWGA.NIR.GEN.121) |
| Alcohol by Volume @ 60°F by NIR | BWGA Method (MET.BWGA.NIR.GEN.121) |
| Alcohol by Volume NIR | BWGA Method (MET.BWGA.NIR.GEN.121) |
| Alcohol by Weight NIR | BWGA Method (MET.BWGA.NIR.GEN.121) |
| Alpha Amino Acid (PAN) Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Alpha Amino Acid (PAN) Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.012) |
| Ammonia Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Ammonia Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.013) |
| Apparent Proof by Densitometer | BWGA Method (MET.BWGA.DEN.GEN.131) |
| Bentonite Trial by Turbidity | BWGA Method (MET.BWGA.TUR.GEN.251) |

| **Test/Technology** | **Test Method(s)** |
|---|---|
| Benzoic Acid by Enzymatic Reaction | BWGA Method (MET.BWGA.ENZ.BEN.103) |
| Best Before Date by Rancimat | BWGA Method (MET.BWGA.RAN.OO.241) |
| Brix Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.014) |
| Calcium Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Calories by Calculation | BWGA Method (MET.BWGA.CAL.GEN.263) |
| Calories by NIR | BWGA Method (MET.BWGA.NIR.GEN.121) |
| Carbon Dioxide by Multiple Volume Expansion | BWGA Method (MET.BWGA.CBO.GEN.201) |
| Celstab Trial by Conductance and Turbidity | Celstab Protocol |
| Citric Acid by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Cold Stability by Conductance | BWGA Method (MET.BWGA.CON.GEN.141) |
| Color Analysis by Spectrophotometer | BWGA Method (MET.BWGA.SPE.COL.224) |
| Color Stability by Turbidimeter | BWGA Method (MET.BWGA.TUR.GEN.161) |
| Copper by Secondary Method (CDR Spectrophotometer) | BWGA Method (MET.BWGA.CDR.CU.191) |
| Density by Densitometer | BWGA Method (MET.BWGA.DEN.GEN.131) |
| Density Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.015) |
| D-Gluconic Acid by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Dissolved Oxygen by Multiple Volume Expansion | BWGA Method (MET.BWGA.CBO.GEN.201) |
| Dry Extract Taberie Formula Calculation | BWGA Method (MET.BWGA.CAL.GEN.261) |
| Ethyl Acetate by GC | BWGA Method (MET.BWGA.GCH.EA.171) |
| Filterability by Filterability Index | BWGA Method (MET.BWGA.FIL.GEN.211) |
| Final Gravity by NIR | BWGA Method (MET.BWGA.NIR.GEN.121) |
| Free and Total $SO_2$ by Segmented Flow Analysis | BWGA Method (MET.BWGA.SEG.GEN.151) |
| Free Fatty Acids by Secondary Method (CDR Spectrophotometer) | BWGA Method (MET.BWGA.CDR.FFA.192) |
| Fructose by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |

| **Test/Technology** | **Test Method(s)** |
|---|---|
| Glucan by Extract | BWGA Method (MET.BWGA.EXT.GEN.271) |
| Glucose and Fructose by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Glucose and Fructose Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.016) |
| Glucose by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Heat Stability by Turbidity | BWGA Method (MET.BWGA.TUR.GEN.252) |
| Hydrogen Peroxide Concentration by Densitometer and Calculation | BWGA Method (MET.BWGA.DEN.H2O2.141) |
| International Bitterness Units by Spectrophotometer | BWGA Method (MET.BWGA.SPE.IBU.223) |
| Iron by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| L-Lactic Acid by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| L-Lactic Acid Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.017) |
| L-Malic Acid by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| L-Malic Acid Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.018) |
| Mannostab Trial by Conductance and Turbidity | Mannostab Protocol |
| Methanol by GC | BWGA Method (MET.BWGA.GCH.ME.181) |
| Moisture and Volatiles by Mass Loss Assessment by Heating | BWGA Method (MET.BWGA.MLA.OO.231) |
| Molecular Sulfur Dioxide by Calculation | BWGA Method (MET.BWGA.CAL.GEN.264) |
| Ochratoxin-A by ELISA | BWGA Method (MET.BWGA.ELI.GEN.271) |
| Original Gravity by NIR | BWGA Method (MET.BWGA.NIR.GEN.121) |
| Pectin by Extract | BWGA Method (MET.BWGA.EXT.GEN.272) |
| Peroxides by Secondary Method (CDR Spectrophotometer) | BWGA Method (MET.BWGA.CDR.PER.193) |
| pH by pH meter | OIV-MA-AS313-15 &<br>BWGA Method (MET.BWGA.pH.GEN.104) |
| Polyphenols by Secondary Method (CDR Spectrophotometer) | BWGA Method (MET.BWGA.CDR.POL.194) |
| Potassium by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Potassium Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.0.19) |

| **Test/Technology** | **Test Method(s)** |
|---|---|
| Real Extract by NIR | BWGA Method (MET.BWGA.NIR.GEN.121) |
| Residual Sugar Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.020) |
| Sensory Evaluation by Sensory Trained Personnel | BWGA Method (MET.BWGA.SEN.GEN.281) |
| Sensory Troubleshooting by Sensory Trained Personnel | BWGA Method (MET.BWGA.SEN.GEN.283) |
| Sorbic Acid by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.SOR.102) |
| Sorbic Acid by Spectrophotometer | BWGA Method (MET.BWGA.SPE.GEN.221) |
| Sorbic Acid Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.021) |
| Specific Gravity by Densitometer | BWGA Method (MET.BWGA.DEN.GEN.131) |
| Sucrose by Enzymatic Analysis | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Sulfide Trial by Sensory Trained Personnel | BWGA Method (MET.BWGA.SEN.GEN.282) |
| Tartaric Acid – Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.022) |
| Titratable Acidity by Manual Method | BWGA Method (MET.BWGA.MAN.GEN.291) |
| Titratable Acidity Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.023) |
| Total Extract by Calculation | BWGA Method (MET.BWGA.DEN.GEN.133) |
| Total Package Oxygen by Calculation | BWGA Method (MET.BWGA.CAL.GEN.262) |
| Total Solids by Evaporation and Calculation | BWGA Method (MET.BWGA.CAL.GEN.265) |
| True Proof (Apparent Proof plus Obscuration) by Densitometer | BWGA Method (MET.BWGA.DEN.GEN.131) |
| True Proof by Distillation by Densitometer | BWGA Method (MET.BWGA.DEN.GEN.131) |
| Turbidity by Turbidimeter | BWGA Method (MET.BWGA.TUR.GEN.161) |
| UV Analysis by Spectrophotometer | BWGA Method (MET.BWGA.SPE.OO.222) |
| Volatile Acidity Secondary Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.024) |
| Wine Stylizing by Sensory Trained Personnel | BWGA Method (MET.BWGA.SEN.GEN.284) |
| Yeast Assimilable Nitrogen (YAN) by Enzymatic Analysis (Calculation) | BWGA Method (MET.BWGA.ENZ.GEN.101) |
| Yeast Assimilable Nitrogen Method using FTIR | BWGA Method (MET.BWGA.FTI.GEN.025) |

| **Test/Technology** | **Test Method(s)** |
|---|---|
| Zenith Trial by Conductance and Turbidity | Zenith Protocol |

BIOLOGICAL

| **Test/Technology** | **Test Method(s)** |
|---|---|
| Brett DNA by PCR | BWGA Method (MET.BWGA.MIC.GEN.502) |
| General Microscan by Microscopic Analysis | BWGA Method (MET.BWGA.MIC.GEN.505) |
| Yeast & Bacteria Culture by Membrane Filtration Method | BWGA Method (MET.BWGA.MIC.GEN.503) |
| Yeast Count and Viability by Flow Cytometer | BWGA Method (MET.BWGA.MIC.GEN.501) |

# Accredited Laboratory

A2LA has accredited

## Baker Wine & Grape Analysis, Inc.

*Paso Robles, CA*

for technical competence in the field of

## Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017*).

Presented this 16th day of May 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7198.01
Valid to June 30, 2026
Revised May 18, 2026

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