



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Baker Wine & Grape Analysis, Inc.  
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CHEMICAL

Valid To: May 31, 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:

<u>Test/Technology</u>	<u>Test Method(s)</u>
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)

<b><u>Test/Technology</u></b>	<b><u>Test Method(s)</u></b>
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 <sub>2</sub> 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)

<b><u>Test/Technology</u></b>	<b><u>Test Method(s)</u></b>
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 & 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)

<b><u>Test/Technology</u></b>	<b><u>Test Method(s)</u></b>
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)
Titrateable Acidity by Manual Method	BWGA Method (MET.BWGA.MAN.GEN.291)
Titrateable 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)

<b><u>Test/Technology</u></b>	<b><u>Test Method(s)</u></b>
Zenith Trial by Conductance and Turbidity	Zenith Protocol

BIOLOGICAL

<b><u>Test/Technology</u></b>	<b><u>Test Method(s)</u></b>
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 16<sup>th</sup> day of May 2024.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 7198.01  
Valid to May 31, 2026

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