Sample Volume Requirements

Analysis	Price	Minimum Sample Volume
Acetaldehyde	$ 80.00	50 mL
Acetic Acid	$ 35.00	50 mL
Adams Assay for Phenolics, Tannins, and Anthocyanins	$ 105.00	50 mL
Alcohol (Ethanol) - GC	$ 24.00	250 mL
Alcohol (Ethanol) - NIR	$ 22.00	250 mL
Ammonia	$ 27.00	250 mL
Ammonia / NOPA Combination,	$ 45.00	250 mL
Anaerobic Culture for Bacteria	$ 27.00	50 mL
Anthocyanins	$ 45.00	250 mL
Apparent Proof	$ 30.00	500 mL
Arsenic	$ 150.00	750 mL
Ascorbic Acid	$ 35.00	50 mL
Assimilable Amino Nitrogen	$ 27.00	50 mL
Basic Chemistry Panel for Winemaking: Panel 1	$ 98.00	500 mL
Bentonite Fining Trial	$ 75.00	750 mL
Bentonite Fining Trial for heat and colloid stability (for wines that will use CMC for cold stability)	$ 95.00	750 mL
Berry Sample Prep (Berries)	$ 25.00	
Berry Sample Prep (Clusters)	$ 50.00	
Berry Variability	$ 450.00	250 Berries
Berry Weight	$ 20.00	
Bitterness Units	$ 35.00	50 mL
Blending Panel	$ 250.00	750 mL
Botrytis Panel: Panel 19	$ 100.00	50 mL
Bottled Wine Sterility	$ 30.00	(1) Finished Bottle
Brazil Export	$ 263.00	(2) Finished Bottles
Brett Assessment Panel: Panel 7	$ 120.00	50 mL
Brix	$ 19.00	50 mL
Buffer Capacity	$ 15.00	50 mL
Calcium	$ 26.00	50 mL
Carbon Dioxide	$ 24.00	50 mL
China Export	$ 146.00	(2) Finished Bottles
Chloride	$ 50.00	250 mL
Citric Acid	$ 25.00	50 mL
CMC Panel for White Wines: Panel 18	$ 125.00	(3) 500 mL Samples
Cobalt	$ 100.00	250 mL
Cold Stability	$ 35.00	250 mL
Colloid Solubility	$ 40.00	50 mL
Colloidal Stabilization Panel for Red Wines	$ 155.00	750 mL Samples
Color Stability	$ 50.00	250 mL

Analysis	Price	Minimum Sample Volume
Color, Spectrophotometer*	$ 30.00	50 mL
Color: Absorbance @ 420/520	$ 30.00	50 mL
Copper	$ 26.00	50 mL
Core Juice Panel: Panel 3.5	$ 85.00	250 mL
Cork Aroma Evaluation for Sparkling Wine	$ 400.00	125 or 250 Corks
Cork Aroma Evaluation for Still Wine	$ 350.00	125 or 250 Corks
Cork Sterility	$ 75.00	1 Unopened Bag
Culture for Bacteria	$ 27.00	50 mL
Culture for *Brettanomyces*	$ 27.00	50 mL
Culture for Yeast	$ 27.00	50 mL
Density	$ 27.00	50 mL
Direct Yeast Count	$ 40.00	500 mL
Dissolved Oxygen	$ 25.00	500 mL
Distilled Beverages Panel	$ 250.00	250 mL
Enartis Stab Micro Trial	$ 280.00	750 mL
Ethyl Acetate	$ 90.00	50 mL
Ethyl-phenols (4EP/4EG)	$ 60.00	50 mL
Export Panel: Panel 5	$ 198.00	(2) Finished Bottles
Extract	$ 59.00	100 mL
Fermentation Assessment Panel: Panel 9	$ 95.00	250 mL
Filterability Panel	$ 40.00	750 mL
Fluoride	$ 30.00	250 mL
Free SO_2	$ 15.00	50 mL
Fructose	$ 25.00	50 mL
Furfural	$ 85.00	100 mL
Fusel Oils	$ 145.00	50 mL (No Headspace)
Glucans	$ 30.00	50 mL
Gluconic Acid	$ 30.00	50 mL
Glucose	$ 25.00	50 mL
Glucose + Fructose	$ 22.00	50 mL
Glucose + Fructose, Inverted	$ 35.00	50 mL
Glucose Fermentation	$ 16.00	50 mL
Grape Phenolic Fingerprint Panel: Panel 20	$ 100.00	50 mL
Grape Quality Monitoring Program: Panel 11	$ 75.00	200 Berries
Haloanisoles Panel for Cork (Soak): 2,4,6 -Trichloroanisole (TCA) 2,3,4,6 -Tetrachloroanisole (TeCA) 2,3,4,5,6 - Pentachloroanisole (PCA) 2,4,6 -Tribromoanisole (TBA)	$ 170.00	
Haloanisoles Panel for Wine: 2,4,6 -Trichloroanisole (TCA) 2,3,4,6 -Tetrachloroanisole (TeCA) 2,3,4,5,6 - Pentachloroanisole (PCA) 2,4,6 -Tribromoanisole (TBA)	$ 150.00	250 mL Glas Bottle w/ Foil Cap

Analysis	Price	Minimum Sample Volume
Haloanisoles: Environmental TCA with Kit	$ 150.00	Vial for Bentonite
Heat Stability	$ 20.00	250 mL
Identification of Bacteria	$ 350.00	50 mL
Identification of Yeast	$ 350.00	50 mL
Iron	$ 26.00	50 mL
Isolation of Bacteria	$ 150.00	50 mL
Isolation of Yeast	$ 150.00	50 mL
Japan Export	$ 124.00	(2) Finished Bottles
Juice Panel: Panel 3	$ 130.00	500 mL
Laccase Test	$ 35.00	50 mL
Lactic Acid	$ 30.00	50 mL
Lead	$ 100.00	250 mL
L-Malic Acid	$ 22.00	50 mL
Lysozyme Trial with color	$ 220.00	750 mL
Lysozyme Trial without color	$ 140.00	750 mL
Malolactic Fermentation Assessment Panel: Panel 10	$ 135.00	500 mL
Methanol	$ 80.00	50 mL
Micro-Ox Panel: Panel 15	$ 110.00	250 mL
Microscopic Scan	$ 24.00	50 mL
Mold and Bacteria Panel for Juice: Panel 25	$ 120.00	250 mL
Molecular SO_2 Panel	$ 29.00	50 mL
Monthly Check Panel: Panel 12	$ 40.00	250 mL
Oak Aroma Compounds: Panel 21	$ 165.00	250 mL
Ochratoxin	$ 200.00	(1) Fineshed Bottle
Organic Acid Profile for Juice	$ 60.00	50 mL
Organic Acid Profile for Wine	$ 75.00	50 mL
Oxalic Acid	$ 45.00	50 mL
Oxidative Stability	$ 50.00	50 mL
PCR for Acetic Acid Bacteria (Acetobacter, Gluconobacter and Gluconacetobacter)	$ 60.00	50 mL
PCR for Botrytis	$ 60.00	50 mL
PCR for *Brettanomyces*	$ 60.00	50 mL
PCR for *Lactobacillaceae*	$ 60.00	50 mL
PCR for *Oenococcus* (Available March 1st)	$ 60.00	50 mL
PCR for *Pediococcus*	$ 60.00	50 mL
PCR for *Saccharomyces*	$ 60.00	50 mL
PCR for *Zygosaccharomyces bailii*	$ 60.00	50 mL
PCR Panel: Panel 14 (Available March 1st)	$ 110.00	50 mL
Pectin Test	$ 20.00	50 mL
Percent Solids	$ 15.00	250 mL
pH	$ 12.00	50 mL
pH and Acid Management Panel for Juice: Panel 24	$ 95.00	250 mL
pH and Titratable Acidity Combo	$ 20.00	50 mL
Phenols, Flavanoid	$ 30.00	50 mL
Phenols, Non-Flavanoid	$ 30.00	50 mL
Pinking Potential	$ 40.00	250 mL
Post-Fermentation Panel: Panel 8	$ 50.00	250 mL

Analysis	Price	Minimum Sample Volume
Potassium	$ 24.00	50 mL
Predictive Acid Adjustment	$ 50.00	250 mL
Predictive Acid and Tartrate Stability Panel: Panel 17	$ 100.00	500 mL
Pressure/Vacuum	$ 50.00	(1) Finished Bottle
Problem Identification/Characterization	$ 40.00	750 mL
Protein Material Fining Trial	$ 80.00	500 mL
QC Panel: Panel 2	$ 65.00	750 mL
Quick ML Activity Test	$ 100.00	250 mL
Quick ML Activity Test with adjustment	$ 150.00	750 mL
Sediment/Haze Identification	$ 40.00	(1) Finished Bottle
Sensory Evaluation	$ 50.00	750 mL
Serial Dilution/Plate Count	$ 115.00	50 mL
Smoke Taint Markers (Wine)	$ 120.00	125 mL Glass w/ Metal cap
Sodium	$ 26.00	50 mL
Sorbic Acid	$ 30.00	50 mL
Specific Gravity	$ 27.00	50 mL
Standard Sensory Evaluation	$ 50.00	500 mL
Succinic Acid	$ 30.00	50 mL
Sucrose	$ 30.00	50 mL
Sulfide Detection Trial	$ 25.00	500 mL
Tartaric Acid	$ 20.00	50 mL
TCA: 2,4,6-Trichloroanisole	$ 125.00	50 mL
Titratable Acidity	$ 20.00	50 mL
Total Bacteria Plate Count	$ 60.00	250 mL
Total Phenols	$ 35.00	50 mL
Total SO_2	$ 25.00	50 mL
Total Solids	$ 45.00	250 mL
Transmittance, % @430nm	$ 10.00	50 mL
Transmittance, % @700nm	$ 10.00	50 mL
True Proof	$ 75.00	500 mL
Turbidity	$ 12.00	50 mL
Unifiltered Bottling Panel for Red Wines: Panel 4	$ 149.00	500 mL
Unifiltered Bottling Panel for White Wines: Panel 4	$ 99.00	500 mL
Velcorin® Challenge t 200 ppm (other concentration available)	$ 220.00	750 mL
Velcorin® Series Addition, 3 concentrations	$ 300.00	750 mL
VI-1 Analysis/Form for EU, Long Form	$ 192.00	(2) Finished Bottles
VI-1 Analysis/Form for EU, Short Form	$ 78.00	(2) Finished Bottles
Volatile Acidity	$ 20.00	50 mL
Wine Adjustment Series	$ 80.00	750 mL
Wine Enhancement Series	$ 175.00	750 mL
Wine Improvement Assessment	$ 100.00	750 mL
Wine Improvement Panel: Panel 6	$ 275.00	(3) 750 mLSamples
Wine Phenolic Fingerprint: Panel 16	$ 80.00	50 mL
Yeast Activity Test	$ 150.00	10 grams
Yeast Nutrition Panel for Juice: Panel 23	$ 50.00	250 mL
Zinc	$ 40.00	250 mL