

**SERVICE LABORATORY**

The Fermentation Science Institute offers laboratory and analytical services to homebrewers and fermentation-based businesses that make beer, wine, or spirits. In keeping with SIU's commitment to community service, our researchers seek to support the production of consistent, high-quality fermented products by providing analytical services and technical assistance.

The Fermentation Science Institute Service Laboratory is certified by the Alcohol and Tobacco Tax and Trade Bureau (TTB) for the analysis of wine for export for alcohol, total extract, citric acid, total SO<sub>2</sub>, residual sugars, sorbic acid, and methanol. In addition, the Service Lab participates in semiannual interlaboratory proficiency testing through the American Society for Enology and Viticulture (ASEV.)

To submit a sample, go to *fermentation.siu.edu* and follow instructions under the SERVICE LAB tab.

\*Updated 01/09/2017

**ANALYTICAL SERVICES (WINE)**

ANALYSIS	NOTES	PRICE \$
ALCOHOL		20
SPECIFIC GRAVITY		20
TOTAL EXTRACT		35
CARBON DIOXIDE, WINE		25
OXYGEN, WINE	Dissolved O <sub>2</sub>	25
<b>PACKAGED BEVERAGE PANEL</b>	<i>alcohol, specific gravity, extract, CO<sub>2</sub>, oxygen</i>	<b>75</b>
°BRIX		10
YAN	Ammonia + amino nitrogen	35
TITRATABLE ACIDITY		16
PH		10
<b>HARVEST PANEL</b>	<i>°Brix, YAN, TA, pH</i>	<b>65</b>
CITRIC ACID		25
SORBIC ACID		50
MALIC ACID		20
LACTIC ACID		20
<b>MLF PANEL</b>	<i>L-malic + L-lactic</i>	<b>36</b>
FREE SO <sub>2</sub>		30
TOTAL SO <sub>2</sub>	Free + bound	45
RESIDUAL SUGARS	Glucose + fructose	25
VOLATILE ACIDITY (VA)		26
GRAM STAIN		25
YEAST COUNT AND VIABILITY		25
BRETTANOMYCES	Selective plating and microscopy	35
<b>MICRO SPOILAGE PANEL</b>	<i>VA, Gram stain, yeast count</i>	<b>50</b>

## ANALYTICAL SERVICES (WINE)

ANALYSIS	NOTES	PRICE \$
<b>GENETIC SCREENING</b>	<i>Prices are for each sample depending on the number of samples submitted: 1 sample/2 samples/3+ samples</i>	
<b>WINE SPOILAGE MICROBIAL ANALYSIS</b>	<i>L. brevis, L. lindneri, L. backii, L. collinoides and paracollinoides, Lactobacillus group (L. casei, L. paracasei, L. coryniformis, L. rossiae, L. parabuchneri, L. perolens, L. planatarum, Pediococcus (P. damnosus, P. inopinatus, P. claussenii,) Pectinatus (P. cerevisiiphillus, P. frisingensis, P. haikarae, P. portalensis), and Megasphaera spp. (M. cerevisiae, M. elsdenii)</i>	60/40/30
<b>YEAST SCREENING</b>	Determines presence/absence of yeast *2 sample minimum	60/40/30
<b>YEAST ID</b>	<i>Saccharomyces spp. (S. cerevisiae, S. pastorianus, S. cerevisiae var. diastaticus,) Brettanomyces/ Dekkera spp. (B./D. bruxellensis,) Candida spp./ Pichia spp., Zygosaccharomyces spp. (Z. bailii,) Saccharomycodes spp., and Schizosaccharomyces spp.</i>	100/60/50

We can provide additional services not on this list. Please contact us for inquiries.