

SERVICE LABORATORY

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

The Fermentation Science Institute Service Laboratory offers testing services certified by the Alcohol and Tobacco Tax and Trade Bureau (TTB) for the analysis of wine for export including: alcohol, total extract, total acidity, volatile acidity, citric acid, total SO₂, residual sugars, sorbic acid, and methanol.

To submit a sample, go to fermentation.siu.edu and follow instructions under the SERVICE LAB
 Updated 02/21/2022

COMMON ANALYTICAL SERVICES (WINE)

ANALYSIS	MINIMUM VOLUME/NOTES	PRICE \$
ALCOHOL [‡]	100 ml	20
SPECIFIC GRAVITY	100 ml	20
TOTAL EXTRACT [‡]	100 ml	35
METHANOL [‡]	100 ml	75
CARBONDIOXIDE/OXYGEN	375 ml Inquire if bottles are corked	25
PACKAGED BEVERAGE PANEL	375 ml alcohol, specific gravity, extract, CO₂, O₂	75
°BRIX	20 ml	10
YAN	100 ml Ammonia + amino nitrogen	35
TITRATABLE ACIDITY (TA) [‡]	30 ml	16
PH	50 ml	10
HARVEST PANEL	200 ml °Brix, YAN, TA, pH	65
CITRIC ACID	10 ml	25
SORBIC ACID	10 ml	50
MALIC ACID	10 ml	20
LACTIC ACID	10 ml	20
MLF PANEL	10 ml L-malic + L-lactic	36
FREE SO ₂	50 ml	30
TOTAL SO ₂	50 ml Free + bound	45
RESIDUAL SUGARS [‡]	10 ml Glucose + fructose/*add sucrose	25/*50
VOLATILE ACIDITY (VA) [‡]	100 ml	26
SULFIDE SCREENING	200 ml Sensory screen (presence or absence) of H ₂ S, mercaptans, and dimethyl sulfide	20
A420/A520	50 ml	10/10
GRAM STAIN	50 ml	25
YEAST COUNT AND VIABILITY	50 ml	25
BRETTANOMYCES	50 ml Selective plating	35
MICRO PANEL	150 ml Gram stain, yeast count, selective plating	75

COMMON ANALYTICAL SERVICES (WINE)

ANALYSIS	MINIMUM VOLUME/NOTES	PRICE \$
GENETIC SCREENING	<i>Price per sample depends on the number of samples submitted: 1-2 samples/ *3+ samples</i>	
WINE SPOILAGE MICROBIAL ANALYSIS	50 ml <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>	70/*40
YEAST SCREENING AND ID	50 ml <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>	120/*60

WE CAN PROVIDE ADDITIONAL SERVICES NOT ON THIS LIST. PLEASE CONTACT US FOR INQUIRIES.

STANDARD REPORTING TIME IS 7 BUSINESS DAYS FROM RECEIPT OF SAMPLES.

RUSH SERVICE (2 BUSINESS DAYS) IS AVAILABLE FOR AN ADDITIONAL 50% CHARGE.

‡CERTIFIED VALUES AVAILABLE FOR AN ADDITIONAL \$20.00 FEE