

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 beer for export.

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

COMMON ANALYTICAL SERVICES (BEER)

ANALYSIS	MINIMUM VOLUME/NOTES	PRICE \$
ALCOHOL [‡]	100 ml	20
SPECIFIC GRAVITY [‡]	100 ml	20
REAL EXTRACT [‡]	100 ml	35
CARBON DIOXIDE	12oz bottle or can	15
OXYGEN	12oz bottle or can/Specify TPO or DO	15
PACKAGED BEVERAGE PANEL	<i>12 oz bottle or can Alcohol[‡], specific gravity[‡], extract[‡], CO₂, O₂</i>	60
POLYPHENOLS	50 ml	20
DIACETYL	300 ml	30
TOTAL ACIDITY	50 ml	16
PH [‡]	50 ml	10
IBU [‡]	50 ml	35
COLOR (SRM) [‡]	10 ml	25
BEER QUALITY ASSURANCE PANEL*	<i>100 ml pH, IBU, color</i>	60
PROTEIN	10 ml	75
ASH	150 ml	25
CARBOHYDRATES	250 ml	125
CALORIES	150 ml	60
NUTRITIONAL ANALYSIS PANEL	<i>2 x 12oz bottle or can Protein, ash, carbohydrates, calories, specific gravity, real extract, alcohol</i>	200
A/B ACIDS	20 g	35
HOPS STORAGE INDEX	20 g	40
TOTAL ESSENTIAL OIL CONTENT	500 g	50
MOISTURE	20 g Hops or grain	10
HOPS PANEL	<i>550 g Oil content, alpha&beta acids, HSI, moisture</i>	80
GRAM STAIN	50 ml	25
YEAST COUNT AND VIABILITY	50 ml	25
YEAST CULTURING	Maintenance, propagation, long-term storage	Inquire
MICRO PANEL	<i>100 ml Gram stain, yeast count, selective plating</i>	75

COMMON ANALYTICAL SERVICES (BEER)

ANALYSIS	NOTES	PRICE \$
GENETIC SCREENING	<i>Price per sample depending on the number of samples submitted: 1-2 samples/ *3+ samples</i>	
BEER 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), 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., 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