

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 distilled spirits for export.

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

Updated 08/26/2024

COMMON ANALYTICAL SERVICES (DISTILLED SPIRITS)

ANALYSIS	MINIMUM VOLUME/NOTES	PRICE \$
SPECIFIC GRAVITY [‡]	100 ml/Densitometer (AOAC 982.10)	20
TOTAL SOLIDS [‡]	100 ml/Evaporation (AOAC 920.47)	20
APPARENT PROOF (NO OBSCURATION) [‡]	100 ml/Total Solids <400mg/100ml	20
TRUE PROOF (APPARENT+OBSCURATION) [‡]	200 ml/Total Solids 400-600mg/100ml, °Proof 80-100	20
TRUE PROOF (DISTILLATION) [‡]	350 ml/Total Solids >600mg/100ml	50
PROOF PANEL (FOR UNKNOWN SOLIDS)	<i>750ml/Specific Gravity, Total Solids, Apparent Proof or Apparent Proof+Obscuration</i>	<i>40</i>
	<i>*Add True Proof Distillation if Solids >600mg/100ml</i>	<i>+30</i>
COLOR	50 ml/Spectrophotometer A430 or A525	25
TOTAL ACIDITY [‡]	100 ml/Titration (AOAC 945.08)	20
FURFURAL [‡]	100 ml/Steam Distillation (AOAC 960.16)	100
METHANOL [‡]	100 ml/GC-FID (SSD:TM:200)	75
ETHYL ACETATE [‡]	100 ml/GC-FID (SSD:TM:200)	75
ACETALDEHYDE	100 ml/GC-FID (SSD:TM:200)	75
FUSEL OILS (N-PROPANOL, ISO-BUTANOL, N-BUTANOL, AMYL ACLOHOL)	100 ml/GC-FID (SSD:TM:200)	75
GC ANALYSIS OF "TTB SERIES"	<i>100 ml/Methanol, Acetaldehyde, Ethyl Acetate, and Fusel Oils</i>	<i>100</i>
YEAST COUNT AND VIABILITY	50 ml	25
YEAST CULTURING		Inquire
GENE SEQUENCING FOR TAXONOMIC ID		Please Inquire/In-house testing is on hold
MICROBIAL ANALYSIS	<i>100 ml/selective plating and gram stain</i>	<i>75</i>

[‡]CERTIFIED VALUES AVAILABLE FOR AN ADDITIONAL \$20.00 FEE

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

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

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