



ANALYTICAL SERVICES

Advancing fermentation. Cultivating community.



ANALYTICAL SERVICES & TESTING

Technical Services

White Labs offers third party analytical testing that is independent of the White Labs internal yeast production laboratory. Tests are conducted using the strictest standards employing methods prescribed by the American Society of Brewing Chemists and AOAC. Many countries require TTB certified lab documentation for export of alcohol products and White

Labs has several certified TTB beer chemists on staff. The lab participates in quarterly check sample service to assess accuracy and quality control within the lab which allows White Labs to be confident in the data we are providing our customers. White Labs conducts test and delivers results in a prompt manner, providing customers with information that is both timely and accurate.

Analytical Equipment

Anton Paar AlcoLyzer ME and Density Meter ME 5000 HazeQC ME Turbidity Meter

in beer and spirits. Additionally, these highly complex instruments can determine specific gravity, extract values, attenuation, pH, color, calories and chill haze.

Perkin Elmer Clarus 500 Gas Chromatograph and TurboMatrix 110 Headspace Unit

Our Gas Chromatography can analyze off flavors such as diacetyl and 2,3 pentanedione. It can also detect esters and fusels such as isoamyl acetate, ethyl acetate, acetaldehyde, methanol, isobutanol and acetone.

Bio Rad T100™ Thermocycler and Roche LightCycler® 480 II

We utilize both the Bio Rad T100™ Thermocycler and the Roche LightCycler® 480 II for our PCR-based analysis including genetic identification and beer spoiler detection.

Perkin Elmer Flexar™ HPLC

Our HPLC can analyze sugars, acids, caffeine and more.

The following pages are some of our more popular analytical tests. Water, malt/adjuncts, and hop analyses are also available. To view an extensive list, please visit whitelabs.com.

BEER ANALYSES

LS3600 | Gluten

Price: \$96.60



Method: R5-Competitive Gliadin ELISA assay. Results reported in ppm.

LS6605 | Full Process Microbiological Analysis

Price: \$472.50



Great test to find out where contaminants are entering your brewery. Test your entire process- pre/post chiller, fermentors, brite tanks, hoses, rinse water, fillers, bottles, etc. Up to 10 samples can be submitted. Analysis includes WLD, LCSM, HLP and SDA selective media testing. Also includes Gram stain and genus identification of any positive contaminants.

LS6610 | Complete Microbiological Analysis

Price: \$155.40



Analysis includes WLD, LCSM, HLP and SDA selective media testing. Also includes Gram stain and genus identification of any positive contaminants.

LS6620 | Complete QC Analysis

Price: \$304.50



Great panel for a comprehensive look at finished product. Analysis includes microbiological testing (WLD, LCSM and HLP selective media), alcohol by volume and weight, extract values, attenuation, specific gravity, calories, pH, color, IBU, diacetyl and 2,3 pentanedione.

LS6643 | Nutritional Label Analysis

Price: \$666.75



Analysis needed to create a nutritional label for your product. Analysis includes alcohol by volume and weight, extract values, attenuation, specific gravity, calories, pH, color, protein, total carbohydrates, cholesterol, total fat, calories from fat, trans fat, saturated fat, iron, calcium, sodium, sugar and dietary fiber. Results reported per 12 fl. oz. serving size.

LS6644 | Nutritional Beer Analysis

Price: \$148.05



Analysis includes alcohol by volume and weight, extract values, attenuation, specific gravity, calories, pH, color, protein and total carbohydrates.

LS6646 | ABV/ABW

Price: \$27.30



Alcohol by volume and alcohol by weight. Method: Anton Paar Beer Alcoyzer and DMA 5000 (default) or Gas Chromatograph.

LS6670 | Sugar Profile by HPLC

Price: \$174.30



Analysis includes glucose, fructose, lactose, maltose and sucrose. Method: HPLC. Results reported in percent or g/12 fl. oz.

SIT0001 | Fast Track Testing

Price: \$142.80



Get a range of our most requested services conducted on a fast-turnaround basis with accurate results sent back to you in 2 business days. Analysis includes alcohol by volume and weight, extract values, attenuation, specific gravity, calories, pH, color and IBU.

SIT0011 | Comprehensive Analysis for Packaged Beer

Price: \$178.50



Analysis includes alcohol by volume and weight, extract values, attenuation, acidity, pH, SO₂, IBU, color, specific gravity, calories, CO₂ and air.

BEER ANALYSES

SIT0031 | Comprehensive Flavor Profile

Price: \$224.70



Analysis includes diacetyl, 2, 3 pentanedione, ethyl acetate, 1-propanol, acetaldehyde, isoamyl alcohol, isoamyl acetate, ethyl octanoate, ethyl hexanoate, acetone, methanol and isobutanol. Method: Gas Chromatograph. Results reported in ppm or ppb.

SIT0041 | Total Acidity

Price: \$25.20



Method: Titration. Results reported in percent lactic acid.

SIT0050 | Alcohol, Extract and Calculated Values

Price: \$57.75



Analysis includes alcohol by volume and weight, calories, specific gravity, apparent extract, real extract, color, original extract, apparent attenuation, real degree attenuation and pH. Method: Anton Paar AlcoLyzer and DMA5000.

SIT0070 | IBU Testing

Price: \$40.95



Method: Spectrophotometer. Results reported in BU (Bitterness Units).

SIT0140 | Diacetyl (as-is) Analysis by GC

Price: \$94.50



This testing does not represent any potential diacetyl precursor that may be present in the sample. Method: Gas Chromatograph. Results reported in ppb.

SIT0141 | Diacetyl (total) Analysis by GC

Price: \$94.50



Total diacetyl allows you to measure diacetyl and diacetyl precursor in the product to help anticipate diacetyl shelf life issues. Method: Gas Chromatograph. Results reported in ppb.

SIT0200 | FAN

Price: \$72.45



Free amino nitrogen. Method: Colorimetric. Results FAN reported in mg/L.

WINE/MEAD/CIDER ANALYSES

LS3600 | Gluten

Price: \$96.60



Method: R5-Competitive Gliadin ELISA assay. Results reported in ppm.

LS4000 | Free SO₂

Price: \$16.80



Method: Aeration oxidation. Results reported in mg/L.

LS4030 | Malic Acid

Price: \$17.85



Analyze the amount of malic acid in wine before, during, or after malolactic fermentation. Method: Enzymatic. Results reported in mg/L.

WINE/MEAD/CIDER ANALYSES

LS4050 | YAN (Yeast Assimilable Nitrogen)

Price: \$28.35



YAN is important when determining quality of must and how much nutrient addition is necessary. Method: Enzymatic. Results reporting in mg/L.

LS4070 | Comprehensive Testing for Wine & Cider

Price: \$74.55



Analysis includes titratable acidity, pH, SO₂, alcohol by volume, malic acid and Brix.

LS4071 | Juice Analysis

Price: \$57.75



Great panel for grape and apple must. Analysis includes titratable acidity, pH, Brix, YAN and malic acid testing.

LS6610 | Complete Microbiological Analysis

Price: \$155.40



Analysis includes WLD, LCSM, HLP and SDA selective media testing. Also includes Gram stain and genus identification of any positive contaminants.

LS6643 | Nutritional Label Analysis

Price: \$666.75



Analysis needed to create a nutritional label for your product. Analysis includes alcohol by volume and weight, extract values, attenuation, specific gravity, calories, pH, color, protein, total carbohydrates, cholesterol, total fat, calories from fat, trans fat, saturated fat, iron, calcium, sodium, sugar and dietary fiber. Results reported per 12 fl. oz. serving size.

LS6646 | ABV/ABW

Price: \$27.30



Alcohol by volume and alcohol by weight. Method: Anton Paar Beer Alcolyzer and DMA 5000 (default) or Gas Chromatograph.

LS6670 | Sugar Profile by HPLC

Price: \$174.30



Analysis includes glucose, fructose, lactose, maltose and sucrose. Method: HPLC. Results reported in percent or g/12 fl. oz.

SIT0040 | Titratable Acidity

Price: \$25.20



Method: Titration. Results reported in g/L.

SIT0320 | Total SO₂

Price: \$39.90



Method: Enzymatic. Results reported in ppm.

SPIRIT ANALYSES

LS3010 | Methanol

Price: \$95.55



Method: Gas Chromatograph. Results reported in ppm.

LS3410 | Ethyl Acetate

Price: \$66.15



Method: Gas Chromatograph. Results reported in ppm.

SPIRIT ANALYSES

LS3450 | Distillation Profile by GC

Price: \$148.05



Includes ethyl acetate, 1-propanol, acetaldehyde, isoamyl alcohol, isoamyl acetate, acetone, ethyl butyrate, isobutyl acetate, methanol and isobutanol. Method: Gas Chromatograph. Results reported in ppm.

LS6646 | ABV/ABW

Price: \$27.30



Alcohol by volume and alcohol by weight. Method: Anton Paar Beer Alcolyzer and DMA 5000 (default) or Gas Chromatograph.

SIT0033 | Acetaldehyde

Price: \$67.20



Method: Gas Chromatograph. Results reported in ppm.

KOMBUCHA ANALYSES

LS3600 | Gluten

Price: \$96.60



Method: R5-Competitive Gliadin ELISA assay. Results reported in ppm.

LS6643 | Nutritional Label Analysis

Price: \$666.75



Analysis includes alcohol by volume and weight, extract values, attenuation, specific gravity, calories, pH, color, protein, total carbohydrates, cholesterol, total fat, calories from fat, trans fat, saturated fat, iron, calcium, sodium, sugar and dietary fiber. Results reported per 12 fl. oz. serving size.

LS6646 | ABV/ABW

Price: \$27.30



Alcohol by volume and alcohol by weight. Method: Anton Paar Beer Alcolyzer and DMA 5000 (default) or Gas Chromatograph.

LS6910 | Kombucha Final Product Testing

Price: \$54.60



Analysis includes alcohol by volume via Gas Chromatograph, titratable acidity, pH and total yeast and mold (CFU/ml).

LS6920 | Kombucha Advanced Package

Price: \$187.95



Analysis includes organic acid profile (gluconic, acetic, lactic and malic acid), alcohol by volume via Gas Chromatograph, titratable acidity, pH, total yeast and mold (CFU/ml), total aerobic bacteria count (CFU/ml) and pathogens (*Staphylococcus aureus*, *E. coli*).

LS6930 | Kombucha Shelf Life Testing

Price: \$543.90



Analysis includes alcohol by volume via Gas Chromatograph, titratable acidity, pH, total yeast and mold (CFU/ml), total aerobic bacteria count (CFU/ml) and CO₂ (if applicable). Testing is performed at 0, 30, 60, 90, 180 and 240 days.

SIT0040 | Titratable Acidity

Price: \$25.20



Method: Titration. Results reported in g/L.

MICROORGANISM ANALYSES

LS6671 | Viability

Price: \$48.30



Viability analysis of yeast slurry. Method: methylene blue.

LS6705 | Genetic Identification

Price: \$145.95



Genetic sequencing of isolated bacteria or yeast. In most cases we are able to identify both genus and species of the organism. In bacteria, the 16S rDNA region is sequenced and for yeast, the ITS region is sequenced. Results will be reported in a percent confidence level of the closest organism.

LS6725 | Mixed Culture Isolation

Price: \$530.25



Includes isolation of multiple organisms, genetic identification of the organisms (up to 5 organisms included with package, additional charges for added organisms) and the ratio of the organisms in the culture. Can be banked as a mixed culture or as individual strains for an additional fee.

LS6730 | *Saccharomyces cerevisiae* var. *diastaticus* PCR Analysis

Price: \$99.00



Method: Detection of the STA1 gene (glucoamylase gene) via end-point PCR.



ANALYSIS REQUEST FORM

DATE: _____

CUSTOMER INFORMATION

COMPANY: _____

CONTACT NAME: _____

ADDRESS: _____

PHONE: _____

EMAIL: _____

PAYMENT: CHECK P.O.

CC NUMBER: _____

EXP DATE: _____



SAMPLE #	PART NUMBER	TEST NAME	SAMPLE DESCRIPTION
1			
2			
3			
4			
5			
6			
7			

NOTES:

Shipping Address:
White Labs
Attn: Analytical Lab
9557 Candida St.
San Diego, CA 92126

Drop off location
White Labs Asheville
172 South Charlotte St.
Asheville, NC 28801
8am-4pm Mon-Fri

Drop off location
White Labs San Diego
9495 Candida St.
San Diego, CA 92126
8am-8pm Mon-Fri
12pm-8pm Saturday
12pm-6pm Sunday