



# OMEGA YEAST Lab Services Catalog

All services require an estimated sample volume of 12oz/355mL, unless otherwise noted. All prices are per sample.

## Beer Spec Services

**Beer Spec Services have a turnaround time of 2 days.**

**ABV**  
(\$50)

Determines alcohol by volume (%ABV, %v/v) and weight (%w/w) using an Anton Paar Alcolyzer Beer ME with DMA 4500 M. ASBC Method: Beer-4G. TTB Certified.

**Extracts - FG, AE, RE, OE, ADF, RDF**  
(\$50)

Determines specific gravity, apparent extract, real extract, original extract, apparent degree of fermentation, and real degree of fermentation using an Anton Paar Alcolyzer Beer ME with DMA 4500 M. ASBC Method: Beer-4G. TTB Certified.

**IBUs**  
(\$40)

Determines Bitterness Units of a submitted beer sample by Manual Isooctane Extraction, measuring total hop bittering compounds in beer that absorb at 275 nm. ASBC Method: Beer-23A. TTB Certified.

**Color**  
(\$10)

Color testing is performed using a spectrophotometer and is reported as a Standard Reference Method (SRM) value. ASBC Method: Beer-10. TTB Certified.

**pH and Titratable Acidity**  
(\$25)

Determines how acidic or basic a sample is, by the negative logarithm of the hydrogen ion activity (pH). Titratable acidity is often used as an approximation of total acidity, a way of measuring organic acids in beer. ASBC Methods: Beer-8 and Beer-9. pH Acidity is TTB Certified.

**Calories**  
(\$25)

Determines calories using an Anton Paar Alcolyzer Beer ME with DMA 4500M. ASBC Method: Beer-33.

**FAN**  
(\$70)

Determines Free Amino Nitrogen (FAN, mg/L) in wort or beer using a spectrophotometer. ASBC Method: Wort-12A.

**Polyphenol**  
(\$70)

Determines Total Polyphenols (TP, mg/L) in beer using a spectrophotometer. ASBC Method: Beer-35.

**Total Protein**  
(\$70)

Determines total protein content (% w/w) in beer using a spectrophotometer; note that PVPP stabilized beer will require an additional Total Polyphenol analysis. ASBC Method: Beer-11C.

**Haze**  
(\$25)

Determines haze as reported as Nephelometric Turbidity Units (NTUs), as well as the absorbance value ratios S25/S0 and S90/S0, using an Anton Paar HazeQC ME.

## Flavor Profiling Services

### VDKs

(\$100)

**Flavor Profiling Services have a turnaround time of 3 days.**

Determines actual Vicinal Diketones (VDKs), 2,3-butanedione (diacetyl) and 2,3-pentanedione, in beer using Gas Chromatography – Electron Capture Detector (GC/ECD). ASBC Method: Beer-25. \*If sending sample that is prior to packaging, please keep samples cold.

## Microbiology Services

### LMDA+

(\$30/plate)

**Microbiology Service turnaround times vary. Estimates are listed in the service description.**

Nutrient and differential medium that allows for the growth of a wide range of bacteria from LAB, AAB, non-beer spoilers and hygiene indicators. This medium uses cycloheximide to inhibit the growth of brewing yeast. ASBC Methods: Microbiological Controls 2 and 5. Turnaround time is 3 days.

### MRS+ (aerobic & anaerobic)

(\$30/plate)

This medium allows for the growth of bacteria (including beer spoilers lactobacillus and pediococcus) and wild yeast. This medium uses cycloheximide to inhibit the growth of brewing yeast. ASBC Methods: Microbiological Controls 2 and 5. Turnaround time is 5 days.

### LCSM

(\$30/plate)

This medium is used for the detection of diastatic strains (*STA1+*) *Saccharomyces cerevisiae* as well as a subset of wild yeast. ASBC Methods: Microbiological Controls 2 and 5. Turnaround time is 3 days.

### WLN

(\$30/plate)

This differential medium is used for the detection of yeast, bacteria, and mold. This medium is useful for evaluating colony morphology and screening for cross-contamination. ASBC Methods: Microbiological Controls 2 and 5. Turnaround time is 4 days.

### Descriptive analysis - Gram Staining

(\$20/colony)

A staining method used to classify bacteria by their cell wall's ability to retain the staining dye. ASBC Method: Microbiological Control 3. Turnaround time is immediately after incubation.

### Descriptive analysis - Catalase

(\$20/colony)

A test used to classify aerobic bacteria (catalase positive) by their ability to break down hydrogen peroxide into water and oxygen (determined by the production of bubbles). Turnaround time is immediately after incubation.

### qPCR - STA1/UAS

(\$50/sample)

Quantitative PCR detection diastatic strains (for *STA1* gene and presence of the *UAS*) *Saccharomyces cerevisiae*. Turnaround time is 3 days.

### 16S/ITS Sequencing

(\$145/colony)

Direct colony sequencing of yeast (ITS) and bacterial (16S) for species identification. Turnaround time is 10-14 days.

## Strain Banking Services

### Private Strain Banking

(for ProBrew Customers)

(\$50)

**Strain Banking Services have a turnaround time of 7-10 days.**

Bank your own private strain for future use. Includes microbiological screening on WLN, LCSM, MRS+, and LMDA+. Propagation monitored for performance and flocculation characteristics. Culture banked in our -80°C freezer. Mixed cultures can be stored for an additional fee. **Please note that any privately banked strains require a minimum 1bbl pitchable quantity to be ordered for propagation.**