**BEER PANEL ANALYSIS**

**Basic Beer Panel:**
extracts, alcohol, pH, color, bittering units  
Volume: 24 oz

**Finished Beer Panel:**
extracts, alcohol, pH, color, bittering units, CO₂, air, yeast / mold / bacteria (UBA, MRS)  
Volume: 24 oz

**Stability Panel (Chill Haze):**
tannin and protein content, stability recommendation  
Volume: 24 oz

**Filterability Panel:**
pre and post NTU readings, filter sheet recommendation  
Volume: 2 gallons (additional samples needed for multi-sheet test)

**Membrane Filterability Panel:**
clogging index value to determine if beer is ready for sterile filtration  
Volume: 36 oz

*Note: should not be done more than 5 days prior to sterile filtration / bottling*

**MICROBIOLOGICAL TESTS**

**Microscopic Exam**
scan for microbes and debris (plating may be recommended to determine viability)  
Volume: 2 ml

**Culture, Direct – unpackaged beer**
yeast / mold / bacteria – UBA, MRS  
Volume: 2 ml

yeast / mold only – UBA  
Volume: 2 ml

bacteria only – MRS  
Volume: 2 ml

**Culture, Membrane Filtration – packaged beer**
yeast / mold / bacteria – UBA, MRS  
Volume: 12 oz

yeast / mold only – UBA  
Volume: 12 oz

bacteria only – MRS  
Volume: 12 oz

**Yeast Count Viability**
NucleoCounter  
Volume: 100 ml

**CHEMICAL TESTS**

**Calories**
Volume: 24 oz

**Mineral & Metal Analyses**
iron / copper / calcium / sodium  
Volume: 50 ml

All samples for analysis must be dropped off or mailed to Gusmer Analytical Services, 640 Airpark Road, Suite D, Napa, CA 94558. For any questions regarding samples or for the lastest pricing please contact the Gusmer Napa Laboratory at 707.224.7903.