

BioNetwork Natural Products Laboratory

Testing service excerpt: Foods and Beverages

Test method name	Description, Reference, or Instrumentation	2021 Price, 1 sample*	Price, additional sample**	Sample amount
Acetaldehyde in beer	ASBC Beer-48 HS-GC-FID	\$140	\$90	1 package
Alcohol by volume (beer, cider, wine up to 20%)	ASBC Beer-4G Alcolyzer and DMA	Free for NC breweries/ wineries*	Free for NC breweries/ wineries	2 packages (bottle / can) or 200mL wine
Alcohol by volume (kombucha, 0.05-2%)	AOAC 2016.12 HS-GC-FID	\$65	\$35	2 packages
Alcohol by volume (spirits)	Anton Paar Alcolyzer and DMA	Free for NC distilleries*	Free for NC distilleries*	200 mL
Alcohol by volume (tincture)	Custom / USP <611 II-b>; GC-FID	\$65	\$35	25 mL
Ash (beer)	ASBC Beer-14	\$40	\$25	1 package
Bitterness units (beer)	ASBC Beer-23A Spectrophotometer	\$30	\$30	1 package
Calories per 12 oz., calculated (beer)	Anton Paar Packaged Beverage Analyzer	Free for NC breweries*	Free for NC breweries	2 packages
Carbohydrates, calculated (beer)	ASBC Beer-6D (requires ash, SG, RE, & protein data)	\$75	\$50	2 packages
Free amino nitrogen in beer or wort	ASBC Wort-12 Colorimetric	\$75	\$35	1 package or 200 mL
Hops α and β acids + moisture content	ASBC Hops-6A and 6D Moisture analyzer	\$50	\$35	20g dried to 8-12% moisture
Hop essential oil semi-quantitative analysis	ASBC Hops-17 GC-FID	\$100	\$25	2 g
Hop extract α and β acids	ASBC Hops-14 HPLC	\$70	\$50	5 g
Iso-alpha acids in beer or wort	ASBC Beer-23E HPLC	\$95	\$28	1 package or 200 mL
Microbiological screening for spoilage organisms	HLP, LCSM	\$130	\$90	1 package or 200 mL
Moisture content (loss on drying)	USP <731> Moisture analyzer	\$34	\$20	5 g
Protein calculation (beer)	ASBC Beer-11C Spectrophotometer	\$49	\$28	1 package
Sulfur dioxide in wine (free and total)	Modified Ripper method/ Titration	\$50	\$50	200 mL
Titrateable acidity + pH in wine	AOAC 962.12	\$30	\$15	50 mL
Total acidity + pH of beer	ASBC Beer-8A, Beer-9	\$30	\$15	50 mL

- Pricing is subject to change based on material costs. Please ask about additional tests of interest.
- For most developed methods: Standard turnaround time is 10 business days or fewer.
- Include a completed sample submission form with samples (See “Client Resources” at <https://abtech.edu/bionetwork>).
- For standardized or custom test methods not listed here, please ask about method development services by contacting npl@ncbionetwork.org
- *For NC brewers, first sample submission per month (up to 6 samples) is **free** for our Anton Paar instrument “suite” of tests: alcohol by volume, package pressure, CO₂, O₂, haze, calories, and OE, AE, RE, ADF, RDF values.
- **Up to 5 samples may be submitted at once for the additional sample price. For larger projects, please contact npl@ncbionetwork.org