



## Murphy & Son Laboratory Services Price List 2022

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*Last Updated: 07/07/22*

| PRODUCT CODE          | PRODUCT NAME                                    | DESCRIPTION  | PRICE   | Minimum Sample Required | Avg Turnaround (working days) |
|-----------------------|---|--|---------|-------------------------|-------------------------------|
| LAB-ABVA              | ABV Analysis by Anton Paar Alcolyzer            | ABV, present gravity, original gravity analysed by the Anton Paar Alcolyzer - <b>UKAS Accredited</b>             | £23.32  | 300ml                   | 3-5 days                      |
| LAB-ABVAM (Multiples) | ABV Analysis by Anton Paar Alcolyzer            | ABV, present gravity, original gravity analysed by the Anton Paar Alcolyzer (MULTIPLES) - <b>UKAS Accredited</b> | £21.00  | 300ml                   | 3-5 days                      |
| LAB-ABV               | ABV Analysis by Distillation BEER/CIDER/SPIRITS | ABV, present gravity, original gravity analysed by distillation - ( <b>UKAS Accredited</b> for beers only)       | £33.00  | 500ml                   | 7-10 days                     |
| LAB-BU                | Bitterness Analysis                             | Measurement of Bitterness of in a beer/wort sample   | £29.68  | 100ml                   | 3-5 days                      |
| LAB-CAA               | Combined Analysis (Anton Paar Alcolyzer ABV)    | ABV, present gravity, original gravity, pH, colour and bitterness  | £42.40  | 500ml                   | 5-7 days                      |
| LAB-CADM              | Combined Analysis (Anton Paar Alcolyzer ABV)    | ABV, present gravity, original gravity, pH, colour and bitterness (MULTIPLES)                                    | £37.50  | 500ml                   | 5-7 days                      |
| LAB-COLOUR            | Measurement of Beer Colour                      | Measurement of beer colour in EBC  | £13.25  | 50ml                    | 3-5 days                      |
| LAB-FAN               | Free Amino Nitrogen                             | Measurement of Free Amino Nitrogen in malt/wort/beer   | £30.00  | 100ml                   | 5-7 days                      |
| LAB-GLUTEN            | Gluten 1-2 samples                              | Analysed by Elisa method R5 Gliadin analysis ( <b>UKAS Accredited for beers only</b> )                           | £115.00 | 100ml                   | 3-5 days                      |
| LAB-GLUTEN-3+         | Gluten 3+ samples                               | Analysed by Elisa method R5 Gliadin analysis ( <b>UKAS Accredited for beers only</b> )                           | £90.00  | 100ml                   | 3-5 days                      |
| LAB-GLUTEN-FAST       | Gluten Fast Turnaround                          | Analysed by Elisa method R5 Gliadin analysis- Fast Turnaround  | £145.00 | 100ml                   | 1-2 days                      |
| LAB-ATNC              | ATNC  | Analysis of Apparent Total Nitrosamine Compounds   | £198.22 | 500ml                   | 15 days                       |

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|---------------------|---|--|-----------|-------------------------|-------------------------------|
| LAB-NA              | NDMA (Nitrosodimethylamine) analysis              | Analysis carried out to determine Nitrosodimethylamine content   | £93.28    | 500ml                   | 15 days                       |
| LAB-HMS             | Elemental Analysis Single Element                 | X 1 Element  | £27.30    | 100ml                   | 5-7 days                      |
| LAB-HM              | Elemental Analysis Suite                          | X 6 Elements analysed by ICP-OES. Arsenic, Cadmium, Copper, Iron, Mercury, Lead.   | £127.20   | 100ml                   | 5-7 days                      |
| LAB-IA              | Ionics Analysis                                   | Calcium, Chloride, Sulphate and Magnesium in Wort & Beer   | £37.05    | 50ml                    | 5-7 days                      |
| LAB-FWA             | Liquor Analysis                                   | Calcium, Magnesium, Chloride, Sulphate, pH, Total Hardness as CaCO3 Alkalinity as CaCO3 and Nitrate.   | £27.50    | 50ml                    | 7-10 days                     |
| LAB-FWA-NA          | Liquor Analysis plus Sodium                       | Calcium, Magnesium, Chloride, Sulphate, pH, Total Hardness as CaCO3 Alkalinity as CaCO3, Nitrate and Sodium Analysis (LAB_HMS)   | £51.50    | 50ml                    | 7-10 days                     |
| LAB-TAN             | Shelf Life Analysis (Tannometer)                  | Analysis of potential polyphenols & tannins by Tannometer - Filtered Beer Only   | £90.10    | 500ml                   | 7-10 days                     |
| LAB-SO2             | Sulphur Dioxide Analysis (Total)                  | Total sulphur dioxide analysis. LOD is 2ppm. Beer, Wine & Cider  | £31.27    | 50ml                    | 5-7 days                      |
| LAB-CO2             | Carbon Dioxide Analysis in beer                   | The determination of dissolved carbon dioxide in small pack products.  | £37.10    | 1 x small pack          | 5-7 days                      |
| LAB-POLYPHENOL      | Polyphenol analysis in beer                       | Total Polyphenols analysis by Spectroscopy   | £37.10    | 1 x small pack          | 5-7 days                      |
| LAB-NUTRITIONAL-AN/ | Nutritional analysis in beer samples              | Reported as Alcohol Content g/100ml, Total Carbohydrate Content g/100ml and Protein Content g/100ml. Nutritional content reported in kcal energy/100ml and kJ energy/100ml | £137.80   | 500ml                   | 7-10 days                     |
| LAB-MCHECK          | General Microbiological Check & Report            | General microscopy, yeast count, viability plus a written report   | £27.56    | 50ml                    | 1-2 days                      |
| LAB-MICRODP         | Sample Analysis by Direct Plating                 | 4 Types of media used. Cask/FV/unfiltered Beer, wort and water samples.  | £32.86    | 50ml                    | 3-5 days                      |
| LAB-PCR             | Sample Analysis by real-time PCR                  | Identify beer spoilage microorganisms present in yeast slurries, fermenters and packaged beer  | £70.00    | 30ml                    | 1-2 days                      |
| LAB-PCR (multiples) | Sample Analysis by real-time PCR                  | Identify beer spoilage microorganisms present in yeast slurries, fermenters and packaged beer  | £50-60 ea | 30ml                    | 1-2 days                      |
| LAB-QPCR            | Quantification of microorganisms by real-time PCR | Quantify beer spoilage microorganisms present in your yeast slurries, fermenters and packaged beer - (this is in addition to sample costs)                                 | £40.00    | 30ml                    | 3-5 days                      |

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|-----------------|--|---|---------|-------------------------|-------------------------------|
| LAB-DIASTATICUS | Identification of <i>S. cerevisiae</i> var. <i>diastaticus</i> | Enrichment and identification of <i>S. cerevisiae</i> var. <i>diastaticus</i> using real-time PCR | £120.00 | 30ml                    | 3-5 days                      |
| LAB-MICROMF     | Sample Analysis by Membrane Filtration                         | Filtered/Sterile Filtered Beer samples  | £40.00  | 300ml                   | 3-5 days                      |
| LAB-YEASTC      | Yeast Contamination Analysis                                   | Includes Direct plating analysis and Yeast Streak Plates  | £38.00  | 50ml                    | 3-5 days                      |

**Please send all samples to the address at the top of this document, clearly labelled with a cover letter detailing your contact details and analysis requirements. Please note any unidentified samples received without a cover note for contact details will be disposed of within 24 hours. Results and an invoice will be sent to you by email.**