



## Purchase Order - Beer, Hops and Water

Company Name .....

Contact Person .....

Email .....

Mobile ..... Customer Order No (if required) .....

Telephone ..... AWRI Quote No (if applicable) .....

Sample/s description\* (This description will appear on your analytical report) .....

\*For large sample numbers, please provide a typed list of sample descriptions (preferably in excel) that will enable quicker sample login and minimize the chance of any typographical errors.

Packaged Beer     Unpackaged Beer     Wort     Ferment     Water     Hops     Other

### Beer Analysis

- |  |  |
|--|--|
| <input type="checkbox"/> Alcohol (NIR)                     | <input type="checkbox"/> pH  |
| <input type="checkbox"/> Brix (Density Meter)              | <input type="checkbox"/> Plato (Density Meter)                           |
| <input type="checkbox"/> Calcium (ICP)                     | <input type="checkbox"/> Sugars - glucose & fructose (HPLC)              |
| <input type="checkbox"/> Carbon dioxide & dissolved oxygen | <input type="checkbox"/> Free & Total Sulfur dioxide (Discrete Analyser) |
| <input type="checkbox"/> Chill haze test                   | <input type="checkbox"/> TCA - 6 compounds (GCMS)                        |
| <input type="checkbox"/> Colour (430 nm)                   | <input type="checkbox"/> Total acidity as % lactic acid (Titration)      |
| <input type="checkbox"/> IBU (UV-VIS)                      | <input type="checkbox"/> Turbidity                                       |
| <input type="checkbox"/> Low Molecular Weight Sulfurs      | <input type="checkbox"/> VDK - includes diacetyl & 2,3-pentanedione      |
| <input type="checkbox"/> Malic acid (Discrete Analyser)    |  |

### Microbial Analysis

- |  |  |
|--|--|
| <input type="checkbox"/> Beer spoilage panel                         | <input type="checkbox"/> Microbial identification (DNA Sequencing/PCR) |
| <input type="checkbox"/> Beer sterility                              | <input type="checkbox"/> Rapid DNA test for LAB (Brewpal)              |
| <input type="checkbox"/> Beer sterility combo (sterility & spoilage) | <input type="checkbox"/> Yeast count                                   |
| <input type="checkbox"/> Catalase                                    | <input type="checkbox"/> Water sterility                               |

### Water Analysis

- |  |  |
|--|--|
| <input type="checkbox"/> Chloride (Hach test kit)          | <input type="checkbox"/> TCA - 6 compounds (GCMS)                    |
| <input type="checkbox"/> Metals by ICP (Na, K, Ca, Mg, Fe) | <input type="checkbox"/> Total alkalinity - carbonate & bicarbonate  |
| <input type="checkbox"/> Nitrate (Hach test kit)           | <input type="checkbox"/> Total dissolved solids (Conductivity Meter) |
| <input type="checkbox"/> pH                                | <input type="checkbox"/> Total Hardness (includes Ca & Mg)           |
| <input type="checkbox"/> Sulfate (Hach test kit)           | <input type="checkbox"/> Metals & hardness combo                     |

### Hops Analysis

- |   |  |
|---|--|
| <input type="checkbox"/> Alpha and beta hops acids (HPLC) | <input type="checkbox"/> Moisture content                    |
| <input type="checkbox"/> Hops oil profile (GCMS)          | <input type="checkbox"/> Total essential oils (Distillation) |

For further details regarding sample submission please visit our website: [https://www.awri.com.au/commercial\\_services/analytical\\_services/submission\\_of\\_samples/](https://www.awri.com.au/commercial_services/analytical_services/submission_of_samples/)

Acceptance by the AWRI of this work, following the receipt of a purchase order for analysis, is subject to the terms and conditions and conditions which are posted on our website. I hereby acknowledge that the person signing this purchase order is an authorised representative of the Company and has the authority to bind me / us into a contractual agreement.

Signature .....

Name [Print] .....

Date .....

Position/title .....

Please enclose this purchase order with the samples

