



# CERTIFICATE OF ANALYSIS - BAL19DMB00119

**From:**

Williamson & Tudor Street  
 Delacombe VIC 3356  
 Ph 03 6424 1502 x 2311 Fx: 03 5335 5799

**To:**

BINTANI AUSTRALIA  
 PO BOX 2069  
 HAMPTON EAST VIC 3188

**Spec:** BINTANI ALE MALT

**Lot:** BAL19DMB00119 - WOID: 1784973

**Destination:** AU

**2nd ref.:**
**Sales Order:** 4399018

**Req. qt.:** 6 mt

**ETD:** 2019-05-31

**Customer PO:** 9810 - Bintani Melbourne

**Manufacturing date:** 2019-05-04

**Expiration date:** 2021-05-04

**Comments:** 16

**Workorders:** 1784973

| Delivered lot information                               |      |       | Spec |      |      |
|---|------|-------|------|------|------|
| Analysis  | Unit | Value | Min  | Max  | Info |
| Moisture <sup>(1)</sup>                                 | %    | 3.9   |      | 4.5  |      |
| Extract Fine Grind-As Is, Congress <sup>(1)</sup>       | %    | 79.4  |      |      |      |
| Extract Fine Grind-Dry Basis, Congress <sup>(1)</sup>   | %    | 82.5  | 80.0 |      |      |
| Saccharification time, minutes, Congress <sup>(1)</sup> | min  | 10    |      | 15   |      |
| Colour of Wort, Congress <sup>(1)</sup>                 | EBC  | 6.1   | 5.0  | 7.0  |      |
| Diastatic Power, Dry Basis <sup>(1)</sup>               | °WK  | 202   | 200  |      |      |
| Total Protein, Dry Basis <sup>(1)</sup>                 | %    | 10.0  | 9.0  | 11.5 |      |
| Soluble Protein, Dry Basis, Congress <sup>(1)</sup>     | %    | 4.38  |      |      |      |
| Kolbach Index, Congress <sup>(1)</sup>                  | %    | 43.8  | 40.0 | 46.0 |      |
| AAL, Congress <sup>(1)</sup>                            | %    | 80.2  | 79.0 | 83.0 |      |
| Screenings > 2.5 mm <sup>(1)</sup>                      | %    | 93.8  | 90.0 |      |      |
| Screenings < 2.2 mm <sup>(1)</sup>                      | %    | 1.2   |      | 1.5  |      |
| Free Amino Nitrogen, Congress <sup>(1)</sup>            | mg/l | 168   |      |      |      |
| Friability <sup>(1)</sup>                               | %    | 88.9  | 80.0 |      |      |
| Homogeneity <sup>(1)</sup>                              | %    | 99.2  | 95.0 |      |      |
| Viscosity, Congress <sup>(1)</sup>                      | mPas | 1.51  |      | 1.60 |      |
| Wort Beta Glucan, Congress <sup>(1)</sup>               | mg/l | 161   |      | 180  |      |
| DMS Precursor <sup>(1)</sup>                            | ug/g | 1.2   |      | 5.0  |      |
| Foreign Seeds <sup>(1)</sup>                            | %    | 0.0   |      | 2.0  |      |

(1) The result for this parameter is the calculated weighted averages of the analyses results of the composites in the delivered malt lot  
 (2) The result for this parameter has not been tested on the delivered malt lot and represents a value or range normally found in this material

**Calculated raw material information**

|                 |             |
|-----------------|-------------|
| <b>Variety:</b> | Westminster |
| <b>% :</b>      | 100 %       |