



# Braincurrent® Stability & Shelf-Life Test Report

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## TESTING PROGRAMME DETAILS

|                                     |                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Shelf-Life</b>            | 3 years (36 months)                                                                                                          |
| <b>Method</b>                       | Real-time                                                                                                                    |
| <b>Test Conditions</b>              | Ambient (< 25°C), cool, dry, out of direct sunlight.<br>100 g foil packs with poly inner bag.                                |
| <b>Test Parameters &amp; Limits</b> | Total Anthocyanin Content<br>APC, <75,000 cfu/g<br>Yeast & Moulds, <1,000 cfu/g each<br>Water activity, <0.20 A <sub>w</sub> |

## METHODS

| Test Parameter        | Method                       | Lab          |
|-----------------------|------------------------------|--------------|
| <b>TAC</b>            | AOAC 2005.02                 | Cawthron     |
| <b>APC</b>            | APHA 8                       | AsureQuality |
| <b>Yeasts</b>         | FDA BAM 18                   | AsureQuality |
| <b>Moulds</b>         | FDA BAM 18                   | AsureQuality |
| <b>Water Activity</b> | Aqualab water activity meter | In-house     |

## RESULTS

| Test Parameter        | T0    | T3    | T6    | T9    | T12   | T24   | T36   |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|
| <b>TAC</b>            | 983   | 1180  | 1180  | 1190  | 1200  | 1300  | 1300  |
| <b>APC</b>            | < 10  | < 100 | < 100 | < 100 | <100  | <100  | < 10  |
| <b>Yeasts</b>         | < 10  | < 10  | < 10  | < 10  | <10   | <10   | < 10  |
| <b>Moulds</b>         | < 10  | < 10  | < 10  | < 10  | <10   | <10   | < 10  |
| <b>Water Activity</b> | 0.117 | 0.117 | 0.162 | 0.128 | 0.132 | 0.135 | 0.117 |

## CONCLUSION

The testing shows that the product is very stable with no microbial growth and no loss of anthocyanins. The results support a shelf-life of 36 months when stored as recommended – cool and dry, out of direct sunlight, < 25°C and in the original packaging.

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