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Allergy Consulting & Testing Services **TEST REPORT –GLUTEN ELISA TESTING** Date of Report: 27/07/2017 Analysis ID.: 11115 Client details Boston Breweries Date of Sample Receipt: 48 Carlisle street 19/07/2017 Invoice No: 170728/2791 Paarden Island Date of Analysis: 27/07/2017 No. of pages 1 Cape Town Customer Order No: Jason Enquiries: Jana du Plessis For Attention Jason Wittshire Sample details Client sample identification: Boston Premium Lager Gluten Free B2069 Sample ID No.: 8817 Wet. Shelf-stable Sample conditions: Issue: 1 No. of samples submitted: 4 x 440ML Known sample deviations: None Sample drawn by: Client Analysis details Method identification: SOP-TM-001 (reference available on request) Test description: Quantitative Gluten Testing (ELISA) Additional method information: R5 Mendez, AOAC-OMA (2012.01), Deviations from standard method: None certified at AOAC-RI (12061), Codex Method (Type I) Method cross-reactivity: The ELISA specifically detects gluten Known factors influencing test results: None prolamins in wheat, barley and rye. No cross reaction with soy, oats, maize, rice, millet, teff, buckwheat, quinoa and amaranth. **Regulatory Aspects** According to the South African Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act 54 of 1972) - Regulations Relating to the Labelling and Advertising of Foodstuffs, No. R. 146 (1 March 2010): · Gluten must be declared on food product labels when present in the product, its ingredients or in its packaging material. • The claim 'gluten-free' is not permitted for a food that: contains an ingredients that is or has been derived from any species of the significant cereals; and/or contains equal or more than 20 mg/kg gluten in the end product, when the level is determined by the R5 Mendez Enzyme-Linked Immunosorbent Assay (ELISA) for gluten, or other Codex-recommended methods. **TEST RESULTS** Method: Method ID: Method range of MoU: Your sample results (tested in duplicate) Regulatory quantification: limits: Gluten ^: Lab ref. Unit Interpretation: 5.0 - 80.0 mg/kg ^^ ELISA SOP-TM-001 2.45 8817 <5.0 mg/kg (ppm) <LLOQ (ppm) gluten ppm 8817 <5.0 <LLOQ mg/kg (ppm) Results are below the lower limit of quantification of the ELISA. Such results indicate that there may be zero or a very low level of Comments: gluten in the sample, too low to be accurately guantified with the ELISA. <LLOQ = Below lower level of quantification of the method MoU = Measurement of Uncertainty WROQ = Within range of reliable quantification of the method Method is not SANAS accredited >ULOQ = Above the upper limit of quantification of the method ^ There are currently no specified allowable levels set for gluten in South Africa. Stipulations for 'gluten-free' claims are indicated in R.146/2010 and summarised above Approved by IMPLACCO Jana du Plessis Cheryl-Fox Dr. Harris Steinman (MSc Genetics, US) (Msc Biochemistry, US) (MB.Ch.B. (UCT), D.Ch. (SA), D. Av. Technical Signatory Analyst Med) Please note that: 1. Test results relate only to the sample tested 5. Due to the deterioration of the samples, perishable samples are not stored for future enquiries, whereas non-perishables will be stored for 2. The integrity of the reported result is valid only from the time of sample a period of 30 days after testing has been conducted. receipt by FACTS. 6. This report may not be reproduced, except in full. When only certain 3. This report is issued by FACTS under its General Terms and Conditions of Service, available online at www.factssa.com/TermsConditions.htm pages or sections of the full report are reproduced, written permission must be obtained from FACTS. 4. This report is further issued under the Service Agreement as signed by the parties thereof, and the Acceptance Note as completed and 7. All opinions and interpretations expressed herein are based on test

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confirmed by the parties thereof.

method literature, relevant legislation, sound guidance documents

and/or technical knowledge and experience.



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Allergy Consulting & Testing Services **TEST REPORT –GLUTEN ELISA TESTING** Date of Report: 28/07/2017 Analysis ID.: 11116 Client details Boston Breweries Date of Sample Receipt: 48 Carlisle street 19/07/2017 Invoice No: 170728/2791 Paarden Island Date of Analysis: 28/07/2017 No. of pages 1 Cape Town Customer Order No: Jason Enquiries: Jana du Plessis For Attention Jason Wittshire Sample details Client sample identification: Boston Premium Lager Gluten Free B2069 Sample ID No.: 8817 Wet. Shelf-stable Sample conditions: Issue: 1 No. of samples submitted: 4 x 440ML Known sample deviations: None Sample drawn by: Client Analysis details Method identification: SOP-TM-101 (reference available on request) Test description: Quantitative Gluten Testing (ELISA) Additional method information: The method is used for the analysis of Deviations from standard method: None fermented and hydrolysed food which are decalred as gluten-free. Method cross-reactivity: The ELISA specifically detects gluten Known factors influencing test results: None prolamins in wheat, barley and rye. No cross reaction with soy, oats, maize, rice, millet, teff, buckwheat, quinoa and amaranth. **Regulatory Aspects** According to the South African Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act 54 of 1972) - Regulations Relating to the Labelling and Advertising of Foodstuffs, No. R. 146 (1 March 2010): · Gluten must be declared on food product labels when present in the product, its ingredients or in its packaging material. • The claim 'gluten-free' is not permitted for a food that: contains an ingredients that is or has been derived from any species of the significant cereals; and/or contains equal or more than 20 mg/kg gluten in the end product, when the level is determined by the R5 Mendez Enzyme-Linked Immunosorbent Assay (ELISA) for gluten, or other Codex-recommended methods. **TEST RESULTS** Method: Method ID: Method range of MoU: Regulatory Your sample results (tested in duplicate) quantification: limits: Hydrolysed Gluten ^: Lab ref. Unit Interpretation: 10.0 – 270.0 mg/kg ^^ ELISA SOP-TM-101 8817 <10.0 mg/kg (ppm) <LLOQ (ppm) gluten 8817 <10.0 <LLOQ mg/kg (ppm) Results are below the lower limit of quantification of the ELISA. Such results indicate that there may be zero or a very low level of Comments: gluten in the sample, too low to be accurately guantified with the ELISA. <LLOQ = Below lower level of quantification of the method MoU = Measurement of Uncertainty WROQ = Within range of reliable quantification of the method Method is not SANAS accredited >ULOQ = Above the upper limit of quantification of the method M There are currently no specified allowable levels set for gluten in South Africa. Stipulations for 'gluten-free' claims are indicated in R.146/2010 and summarised above. Approved by: Cheryl Fox Cheryl-Fox Dr. Harris Steinman (Msc Biochemistry, US) (Msc Biochemistry, US) (MB.Ch.B. (UCT), D.Ch. (SA), D. Av. Technical Signatory Analyst Med) Please note that: 1. Test results relate only to the sample tested 5. Due to the deterioration of the samples, perishable samples are not stored for future enquiries, whereas non-perishables will be stored for 2. The integrity of the reported result is valid only from the time of sample a period of 30 days after testing has been conducted. receipt by FACTS. 6. This report may not be reproduced, except in full. When only certain 3. This report is issued by FACTS under its General Terms and Conditions of Service, available online at www.factssa.com/TermsConditions.htm pages or sections of the full report are reproduced, written permission must be obtained from FACTS. 4. This report is further issued under the Service Agreement as signed by

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