





FACTS Office, 18 Uplands Rd, Milnerton, 7441 FACTS Lab, The Woodmill, Vredenburg Rd, Stellenbosch, 7600 P.O. Box 565, Milnerton, 7435, South Africa Tel: +27 21 551-2993; Email: info@factssa.com

Allergy Consulting & Testing Services **TEST REPORT –GLUTEN ELISA TESTING** Date of Report: 13/01/2017 Analysis ID.: 9151 Client details Boston Breweries Date of Sample Receipt: 48 Carlisle street 04/01/2017 Invoice No: 170110/2019 Paarden Island Date of Analysis: 11/01/2017 No. of pages 1 Cape Town Customer Order No: PAID Enquiries: Jana du Plessis For Attention Jason Wittshire Sample details Client sample identification: Boston Lager Gluten Free B1972 Sample ID No.: 7292 Wet, Refrigerated Sample conditions: Issue: 1 4 x 440ml No. of samples submitted: 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: Lab ref. Gluten ^: Unit Interpretation: ^^ ELISA SOP-TM-001 5.0 - 80.0 mg/kg 10 ppm 7292 <5.0 mg/kg (ppm) <LLOQ (ppm) gluten 7292 <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 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 11Plachs 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 confirmed by the parties thereof. method literature, relevant legislation, sound guidance documents

- End of Report -

and/or technical knowledge and experience.



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	Food & Alle	ergy Cons	ulting &	Testing Services								
TEST REPORT –GLUTEN ELISA TESTING												
Client details Boston Bro 48 Carlisle Paarden Is Cape Tow			ston Bre Carlisle arden Is pe Towr	veries Date of Report: treet Date of Sample Re and Date of Analysis: Customer Order N			Receipt: No:	11/01/2017 04/01/2017 11/01/2017 PAID	Ana Invo No. Eng	ysis ID.: 9152 ice No: 170110/201 of pages 1 uiries: Jana du Ple	9 Issis	
	For Atten	or Attention Jason Wittshire										
Sample details												
Client sample identification: Boston Lager Gluten Free B1972 Sampl										Sample ID No.:	7292	
Sample conditions:				Wet, Refrigerated	Wet, Refrigerated				Issue: 1			
No. of samples submitted:				4 x 440ml				Known sample deviations: None				
Sample drawn by: Client												
	Analysis details											
Test description: Quantitative Gluten Testing (ELISA)								Method identification: SOP-TM-101 (reference available on request)				
A	ditional me	ethod info	ormation	The method is used for the analysis of fermented and hydrolysed food which are decalred as gluten-free.				Deviations from standard method: None				
М	ethod cross	-reactivit	y:	The ELISA specifically detects gluten prolamins in wheat, barley and rye. No cross reaction with soy, oats, maize, rice, millet, teff, buckwheat, quinoa and amaranth.			Knov	Known factors influencing test results: None				
	Regulatory Aspects											
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TEST RESULTS												
	Method:	Metho	thod ID:	Method range of	MoU:		Yo	ur sample results	(tested in duplica	te)	Regulatory	
				quantification:		Lab ref.	Hydro	lysed Gluten ^:	Unit	Interpretation:	limits:	
	ELISA	SOP-TR	M-101	10.0 – 270.0 mg/kg		7292		<10.0	mg/kg (ppm)	<lloq< td=""><td>~</td></lloq<>	~	
				(ppm) gluten		7292		<10.0	mg/kg (ppm)	<lloq< td=""><td></td></lloq<>		
	Comments	s: Re	sults are	e below the lower limit	of quantif	ication of the	ELISA.	Such results indica	ate that there ma	y be zero or a very lo	w level of	
	gluten in the sample, too low to be accurately quantified with the ELISA. <lloq =="" below="" level="" lower="" method<="" of="" quantification="" td="" the=""> WROQ = Within range of reliable quantification of the method >ULOQ = Above the upper limit of quantification of the method MoU = Measurement of Uncertainty Method is not SANAS accredited</lloq>											
	^^ 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.											
A	Approved by: Augulassis Reyman											
Jana du Plessis (MSc Genetics, US) Technical Signatory Jana du Plessis (MSc Biochemistry, US) Analyst MSC Biochemistry, US) Analyst											nan SA), D. Av.	
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 I his report is further issued under the Service Agreement as signed by the parties thereof, and the Acceptance Note as completed and confirmed by the parties thereof. 								 All opinions and interpretations expressed herein are based on test method literature, relevant legislation, sound guidance documents and/or technical knowledge and experience. 				

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