

TEST REPORT –GLUTEN ELISA TESTING

Client details	Boston Breweries 48 Carlisle street Paarden Island Cape Town	Date of Report:	09/03/17	Analysis ID.:	9517
		Date of Sample Receipt:	01/03/17	Invoice No.:	170303/2152
		Date of Analysis:	09/03/17	No. of pages	1
For Attention	Jason Wittshire	Customer Order No.:	PAID 02.03.2017	Enquiries:	Jana du Plessis

Sample details

Client sample identification:	Boston Premium Larger - Gluten Free B1999	Sample ID No.:	7575
Sample conditions:	Wet, Shelf-stable	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-001 (reference available on request)
Additional method information:	R5 Mendez, AOAC-OMA (2012.01), certified at AOAC-RI (12061), Codex Method (Type I)	Deviations from standard method:	None
Method cross-reactivity:	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.	Known factors influencing test results:	None

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 quantification:	MoU:	Your sample results (tested in duplicate)				Regulatory limits:
				Lab ref.	Gluten [^] :	Unit	Interpretation:	
ELISA	SOP-TM-001	5.0 – 80.0 mg/kg (ppm) gluten	10 ppm	7575	<5.0	mg/kg (ppm)	<LLOQ	^^
				7575	<5.0	mg/kg (ppm)	<LLOQ	

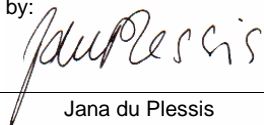
Comments: Results are below the lower limit of quantification of the ELISA. Such results indicate that there may be zero or a very low level of gluten in the sample, too low to be accurately quantified with the ELISA.

<LLOQ = Below lower level of quantification of the method
 WROQ = Within range of reliable quantification of the method
 >ULOQ = Above the upper limit of quantification of the method

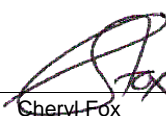
MoU = Measurement of Uncertainty
 Method is not SANAS accredited

[^] 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.

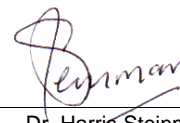
Approved by:



Jana du Plessis
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 Technical Signatory



Cheryl Fox
 (Msc Biochemistry, US)
 Analyst



Dr. Harris Steinman
 (MB.Ch.B. (UCT), D.Ch. (SA), D. Av. Med)

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TEST REPORT –GLUTEN ELISA TESTING

Client details	Boston Breweries 48 Carlisle street Paarden Island Cape Town	Date of Report:	10/03/2017	Analysis ID.:	9518
		Date of Sample Receipt:	01/03/2017	Invoice No.:	170303/2152
		Date of Analysis:	10/03/2017	No. of pages	1
For Attention	Jason Wittshire	Customer Order No.:	PAID 02.03.2017	Enquiries:	Jana du Plessis

Sample details

Client sample identification:	Boston Premium Larger - Gluten Free B1999	Sample ID No.:	7575
Sample conditions:	Wet, Shelf-stable	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)
Additional method information:	The method is used for the analysis of fermented and hydrolysed food which are decalred as gluten-free.	Deviations from standard method:	None
Method cross-reactivity:	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.	Known factors influencing test results:	None

Regulatory Aspects

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TEST RESULTS

Method:	Method ID:	Method range of quantification:	MoU:	Your sample results (tested in duplicate)				Regulatory limits:
				Lab ref.	Hydrolysed Gluten ^:	Unit	Interpretation:	
ELISA	SOP-TM-101	10.0 – 270.0 mg/kg (ppm) gluten		7575	<10.0	mg/kg (ppm)	<LLOQ	^^
				7575	<10.0	mg/kg (ppm)	<LLOQ	

Comments: 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 gluten in the sample, too low to be accurately quantified with the ELISA.

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Approved by:

Jana du Plessis
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- End of Report -