

## TEST REPORT –GLUTEN ELISA TESTING

Client details: Wrap Maestro  
79 Eastlake Drive  
Marina da Gama Muizenberg  
Cape Town

Date of Report: 28 Jan 2020  
Date of Sample Receipt: 27 Jan 2020  
Date of Analysis: 28 Jan 2020  
Customer Order No: PO - 0002

Analysis ID.: 23136  
Invoice No: 2020/0106  
No. of pages 1  
Enquiries: Jana Coetzee

For Attention: Brendan McClean

### Sample details

Client sample identification: Hemp Seed Wraps  
Sample conditions: Wraps, Cold Storage  
No. of samples submitted: 3x Packs  
Sample drawn by: Client

Sample ID No.: 18561  
Issue: 1

Known sample deviations: None

### Analysis details

Test description: Quantitative Gluten Testing (ELISA)  
Additional method information: R5 Mendez, AOAC-OMA (2012.01), certified at AOAC-RI (12061), Codex Method (Type I)  
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.

Method identification: P5.4\_1 (reference available on request)  
Deviations from standard method: None  
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 <sup>^</sup> :	Unit	Interpretation:	
ELISA	P5.4_1	5.0 – 80.0 mg/kg (ppm) gluten	2.40 ppm	18561	<5.0	mg/kg (ppm)	<LLOQ	^^
				18561	<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 SANAS accredited

<sup>^</sup> 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:

Report Approved By:  
Hestie Tredoux  
(MSc Biochemistry, US)

Analysis Completed By:  
Marlou Engelbrecht  
(MSc Medical Physiology, US)

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