

Analytical Certificate

Certificate Number: 2023-95382-95496



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AFLATOXIN ANALYSIS: GROUNDNUTS (LOCAL MARKET ONLY)

Consignment information	Lot Weight (kg)	Additional information
22/67HS/242R Country of origin: South Africa	18 Metric tons	60/70 KPO

- The technical performance characteristics for the HPLC or UPLC method of analysis for the aflatoxin residues, as utilized by the laboratory of PPECB, meet the requirements of the regulations of the European Union Commission Directives and the Codex Alimentarius. The laboratory complies with the ISO/IEC 17025 accreditation standard. (a) External sampling services: At least a 20 kg aggregate sample of groundnuts are obtained by randomly sampling at least 100 bags of 50 kg or 25 kg (or representatively sampling 100 % of all one ton bags), from a consignment weight not exceeding 20 metric tons. The two 10 kg samples are homogenized as watery slurries, and individually sub sampled to obtain two laboratory sub samples. (b) PPECB Laboratory: These two laboratory sub sample slurries are each individually extracted by a methanol-water mixture and the aflatoxin determined by HPLC or UPLC. The detection is based on the post-column derivatization with bromine and the fluorescence detection of both aflatoxin B1 and B1+B2+G1+G2 (Total).
- The analytical results are reported with an expanded measurement of uncertainty calculated using a coverage factor of 2 which gives a level of confidence of approximately 95% and for all results the limit of quantification is indicated.
- The approximate recovery of the analytical method is also indicated for the analytical results.
- The analytical data is not corrected for recovery or measurement uncertainty.
- The results are representative of the analyzed laboratory sub-samples.
- Please note that the results under "Recovery", "Uncertainty" and "LOQ" were generated as part of the laboratory's method validation.
- PPECB Laboratory Services is accredited for method LM102 (Mycotoxin analysis by HPLC/UPLC techniques), LM108 (Free Fatty Acids), LM106 (Peroxide Value).
- The technical signatories are represented by tertiary qualified analytical chemists, as follows: Magzelle Goelman (1806); Tobias Ngobeza (1895); Sophie Manganá (2128) and Carol Malaka (1897).
- A signature of at least one of the technical signatories is required to certify the authenticity of the certificate. The second signature of the certificate audit signatory, additionally verifies the administrative correctness of the certificate, but may be absent without reducing the technical validation of the certificate.
- Results marked "Not SANAS Accredited" in this report are not included in the SANAS Schedule of Accreditation for this laboratory.

	Recovery%	Results	Uncertainty	LOQ		Recovery%	Results	Uncertainty	LOQ
Aflatoxin B1 (µg/kg)					Total Aflatoxins (µg/kg)				
Sub-sample 1.0	88 ± 9	< 0.58	N/A	0.58	Sub-sample 1.0	89 ± 8	< 0.58	N/A	0.58
Sub-sample 2.0	88 ± 9	< 0.58	N/A	0.58	Sub-sample 2.0	89 ± 8	< 0.58	N/A	0.58
Mean Value:		< 0.58			Mean Value:		< 0.58		

Tests marked * fall outside the scope of SANAS accreditation.

Sampling By	Sampling Point	Sampling Date	Receival Date	Client Order Number	Service Request Authorisation
6299	TRIOTRADE - ROBA NUTS (SETLAGOLE)	31/01/2023	07/02/2023	N/A	33431 08/02/2023

Technical Signatory

Certificate Audit Signatory

Analysis Date:	07/02/2023
Certificate Date:	08/02/2023
Document Revision:	L76 Rev 8

Laboratory Manager:

Dr. N. Mnonopi

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 Results are based on information provided by the client and are only valid for specific samples tested.