

Lab ident: MT18-09910.001
Sample type: Powder
Sample Ident: Moringa Powder

Method	Analysis	Unit	Result
WI-AN-001 based on AOAC 2001.11 (Kjeltec)	Protein (N X 6.25)	g/100g	30.0
WI-AN-005	Fat	g/100g	4.80
WI-AN-011 based on AOCS Ce 2-66 (GC)	Of which Saturated Fat	g/100g	1.5
WI-AN-011 based on AOCS Ce 2-66 (GC)	Of which Monounsaturated Fat	g/100g	0.3
WI-AN-011 based on AOCS Ce 2-66 (GC)	Of which Polyunsaturated Fat	g/100g	2.9
WI-AN-011 based on AOCS Ce 2-66 (GC)	Of which Trans Fat (*)	g/100g	<0.1
WI-AN-014	Moisture	g/100g	11.6
WI-AN-013	Ash	g/100g	9.88
WI-AN-006 based on AOAC 985.29 (Enzymatic)	Dietary Fibre	g/100g	26.8
WI-AN-120 (Calculated)	Available Carbohydrates (by difference) (*)	g/100g	16.9
WI-AN-122 (Calculated)	Glycaemic Carbohydrates (*)	g/100g	9.9
WI-AN-007 based on AOAC 982.14 (HPLC)	Total Sugars	g/100g	9.5
WI-AN-007 based on AOAC 982.14 (HPLC)	D-Fructose	g/100g	1.5
WI-AN-007 based on AOAC 982.14 (HPLC)	D-Glucose	g/100g	2.3
WI-AN-007 based on AOAC 982.14 (HPLC)	D-Galactose	g/100g	<0.5
WI-AN-007 based on AOAC 982.14 (HPLC)	Sucrose	g/100g	5.7
WI-AN-007 based on AOAC 982.14 (HPLC)	D-Maltose	g/100g	<0.5
WI-AN-007 based on AOAC 982.14 (HPLC)	D-Lactose	g/100g	<0.5
WI-AN-007 based on AOAC 982.14 (HPLC)	D-Trehalose	g/100g	<0.5

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Method	Analysis	Unit	Result
WI-AN-008 based on AOAC 996.11 (Enzymatic)	Starch	g/100g	<1.00
WI-AN-098 (HPLC)	Maltodextrin (*)	g/100g	<0.5
WI-AN-004 based on ICP-MS Application Notes	Sodium (Na)	mg/100g	19
WI-AN-024 based on AOAC 994.10	Cholesterol	mg/100g	<3
WI-AN-120 (Calculated)	Energy Value (*)	kJ/100g	1189
WI-AN-120 (Calculated)	Energy Value (*)	Cal/100g	284
WI-AN-030 based on AOAC 2013.06 (ICP-MS)	Mercury (Hg)	mg/kg	0.02
WI-AN-030 based on AOAC 2013.06 (ICP-MS)	Cadmium (Cd)	mg/kg	0.02
WI-AN-030 based on AOAC 2013.06 (ICP-MS)	Lead (Pb)	mg/kg	0.12
WI-AN-030 based on AOAC 2013.06 (ICP-MS)	Arsenic (As)	mg/kg	0.03
WI-AN-030 based on AOAC 2013.06 (ICP-MS)	Chromium (Cr)	mg/kg	0.89
WI-AN-022 (ICP-MS)	Calcium (Ca)	g/100g	2.28
WI-AN-022 (ICP-MS)	Magnesium (Mg)	g/100g	0.37
WI-AN-022 (ICP-MS)	Phosphorous (P)	g/100g	0.31
WI-AN-022 (ICP-MS)	Potassium (K)	g/100g	1.70
WI-AN-022 (ICP-MS)	Antimony (Sb)	mg/kg	<0.10
WI-AN-022 (ICP-MS)	Copper (Cu)	mg/kg	7.9
WI-AN-022 (ICP-MS)	Iron (Fe)	mg/kg	201
WI-AN-022 (ICP-MS)	Manganese (Mn)	mg/kg	53

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WI-AN-022 (ICP-MS)	Zinc (Zn)	mg/kg	20
WI-AN-022 (ICP-MS)	Tin (Sn)	mg/kg	<0.10
WI-AN-099 based on AOAC 999.03	Inulin (*)	mg/kg	<0.50
WI-AN-027	pH	-	5.51
AOAC 941.15	β - Carotene (*)	mg/kg	721
AOAC 941.15	β - Carotene as Vitamin A (Calculated) (*)	IU/100g	120095
HPLC	Vitamin B ₁ (Thiamine) (*)	mg/100g	<0.10
HPLC	Vitamin B ₂ (Riboflavin) (*)	mg/100g	0.31
HPLC	Vitamin B ₆ (Pyridoxine hydrochloride) (*)	mg/100g	0.56
WI-AN-097 (HPLC)	Vitamin C (L-Ascorbic Acid) (*)	mg/100g	149
WI-AN-035 based on AOAC 2001.13	Vitamin E (α -Tocopherol)	mg/100g	88.9
Subcontracted	#Vitamin B ₃ (*)	-	As Attached Report
Subcontracted	#Vitamin B ₇ (*)	-	As Attached Report
Subcontracted	#Vitamin B ₉ (*)	-	As Attached Report
Subcontracted	#Vitamin D (*)	-	As Attached Report
Subcontracted	#Vitamin K ₁ (*)	-	As Attached Report
Subcontracted	#Amino Acids (*)	-	As Attached Report

Required analysis done in duplicate. Average result reported. Duplicate results available on request.
 Results marked "*" are not included in the SANAS Schedule of Accreditation for this laboratory.
 Values reported as "<" are lower than the limit of quantification.
 Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.
 # Subcontracted to SGS Multilab. Report attached.



Analyst
Technical Signatory
S Smit



Quality Manager
Technical Signatory
S Sardinha



Senior Analyst
Technical Signatory
S Davey

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REFERENCES

Order :: LAB ID 18070926 (MT18-09910) MORINGO
Offer : DR18-06442
Received Rouen 10/08/18
Requested by: MRS LANGLEY Anthea
ClientID: LAB ID 18070926 (MT18-09910) Moringo Powder
Description: 2 pots
Nature: Powder
Comments:

SGS SOUTH AFRICA (PTY) LTD
 UNIT 28 PANTHER PARK
 11 BERKLEY ROAD
 MAITLAND
 CAPE TOWN, 7435
 SOUTH AFRICA

Rouen 29 / 08 / 2018

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Parameters	Units	Results
Aminoacids (1)		
(SOP M 3123, LC-MS/MS)		
Aspartic acid	%	2,82
Threonin	%	1,17
Methionin	%	0,45
Serin	%	1,28
Valin	%	1,57
Glutamic Acid	%	2,96
Phenylalanin	%	1,59
Prolin	%	1,25
Isoleucin	%	1,33
Leucin	%	2,45
Glycin	%	1,59
Lysine	%	1,67
Alanin	%	1,77
Tryptophane	%	0,47
Cystein + Cystin	%	0,14
Tyrosin	%	1,11
Histidin	%	0,59
Arginin	%	1,63
Vitamin PP (in nicotinic acid) (NFEN15652)	mg/100 g	9,8
Vitamin D2 (MO-0282 (NF EN 12821 adaptée))	µg/100 g	<1,5
Vitamin D3 (MO-0282 (NF EN 12821 adaptée))	µg/100 g	<2,5

(1) Assays subcontracted in a SGS laboratory

(2) Assays subcontracted in a partner laboratory

(3) Uncertainty with k=2 without other described note in the test report directly.

Abbreviations ME or MO described within the field "parameters" of this report mean "Internal method" (adapting from the reference text if described hereinafter).

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Parameters	Units	Results
Vitamin B8 or H (Biotine) (HPLC UV)	µg/100 g	<8
Free vitamin B9 (Folic acid) (ME348 (HPLC))	µg/100 g	9
Vitamin K1 (NFEN14148)	µg/100 g	447

Results validated electronically by

Laurence LAMBERT
Responsable Projet

Phone : 02 35 07 91 60

this validation is an electronical signature realised in conformity with requirements of ISO 17025



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