



C&R/AFL Laboratory
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WILG-Trading
Attn: Mr. W.T.A. Gakes
Phobospad 11
3204 TJ Spijkensisse

ANALYTICAL REPORT SP22-010939.001

The analysis of the sample said to be : Spices

Samples received : 18-03-2022
Lotcode : 20220317
Packaging : Plastic bag
Quantity : 500 gr.
Received from : WILG-Trading
Sampled : by Client

Description : Moringa Oleifera (Peperwortelboom) blad poeder.
Sample Product Description : Spices

When applicable: Analysis marked with [Q] are performed under ISO17025 accreditation,
L.N.R. = Listed Not Received, I.S. = Insufficient Sample

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Results

Declaration Nutritional Value Resume

(per 100 gram product)	001 23-03-2022
Energy value (kJ)	1374
Energy value (kcal)	327
Fat (g)	4,9
of which saturated fat (SAFA) (g)	1,7
of which mono unsaturated fat (MUFA) (g)	0,3
of which poly unsaturated fat (PUFA) (g)	2,5
Carbohydrates (g)	31,9
of which sugars (g)	8,0
Fibre (g)	22,6
Protein (g)	27,6
Salt as NaCl (Sodium*2,50) (g)	0,04

GC Analyses

Fatty Acid Composition expressed on the (extracted) oil

	001 23-03-2022
Method 0014GC; ISO 12966-2 and ISO 12966-4	[Q] in acc. with
C8:0 octanoic acid [caprylic acid] (%)	<0,1
C10:0 decanoic acid [capric acid] (%)	<0,1
C12:0 dodecanoic acid [lauric acid] (%)	<0,1
C12:1 dodecenoic acid (%)	0,1
C13:1 tridecenoic acid (%)	0,4
C14:0 tetradecanoic acid [myristic acid] (%)	0,7
C15:0 pentadecanoic acid (%)	<0,1
C16:0 hexadecanoic acid [palmitic acid] (%)	23,2
C16:1 hexadecenoic acid (%)	1,3
C17:0 heptadecanoic acid [margaric acid] (%)	0,3
C17:1 heptadecenoic acid (%)	0,1
C18:0 octadecanoic acid [stearic acid] (%)	4,5
C18:1 octadecenoic acid [incl. oleic acid] (%)	3,6
C18:2 octadecadienoic acid [incl. linoleic acid] (%)	9,7
C18:3 octadecatrienoic acid [incl. linolenic acid] [omega 3+6] (%)	29,5
C19:0 nonadecanoic acid (%)	<0,1
C19:1 nonadecenoic acid (%)	0,3
C20:0 eicosanoic acid [arachidic acid] (%)	0,8
C20:1 eicosenoic acid (%)	0,3
C20:2 eicosandienoic acid (%)	0,2
C20:3 eicosatrienoic acid (omega 3+6) (%)	2,8
C20:5 eicosapentaenoic acid [EPA] (omega 3) (%)	0,3
C22:0 docosanoic acid [behenic acid] (%)	1,5
C22:1 docosenoic acid [incl. erucic acid] (%)	0,1
C22:2 docosadienoic acid (omega 6) (%)	8,1
C22:5 docosapentaenoic acid (omega 3+6) (%)	0,2
C23:0 tricosanoic acid (%)	0,4
C24:0 tetracosanoic acid [lignoceric acid] (%)	2,7
Saturated Fatty Acids (%)	34,4
Mono unsaturated Fatty Acids (%)	6,3
Poly unsaturated Fatty Acids (%)	50,9
of which Omega 3 Fatty Acids (%)	30,1
of which Omega 6 Fatty Acids (%)	11,9

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	001
	23-03-2022
Unknown Fatty Acids (%)	8,4
REMARK	Res, indicative

Only values above 0.05% are printed. A full list of components is available on request

HPLC Analyses

Sugars and/or sugarlike components

(0011-LC in-house method)	001
	23-03-2022
Glucose (%)	4,1
Fructose (%)	2,0
Lactose (%)	<0,1
Saccharose (%)	1,7
Maltose (%)	0,2
Total Sugars (%)	8,0

ICP Analyses

Element(s) determination by ICP-OES

(0039-EM)	001
	23-03-2022
Sodium [Q] (mg/kg)	167

method: when [Q] then equivalent to else based on NEN-EN 15510

Subcontracted

Dietary Fiber

(CHE060W-Enzymatic in house method based on AOAC 991.43)	001
	23-03-2022
Dietary fiber (%)	22,6

Test subcontracted within the SGS Group.

Wet Chemical Analyses

Total Ash (550°C) in foodstuffs

(ISO 936 modified)	001
	23-03-2022
Total Ash (550 °C) (%)	7,86

Carbohydrates (calculated)

(100-(moisture+protein+fat+ash+dietary fiber))

Carbohydrates (%)	001
	23-03-2022
	31,9

Total fat content in food products

(ISO 1443 modified)

Total fat content (%)	001
	23-03-2022
	4,9

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Moisture content (ISO 1442)	001
	23-03-2022
Moisture content (%)	5,1

Crude protein in foodstuffs (Kjeldahl) (ISO 937 modified)	001
	23-03-2022
Protein (Nx6.25) (%)	27,6

Spijkensisse, 5 April 2022

C&R/APL Laboratory

E.A.M. van Meurs [EVM]
Laboratory Manager

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