

MORINGEX MORINGA EXTRACT

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Table 1. Chemical composition of Moringa extract powdered		
Nutritive value	Extract	Std error
Moisture (%)	9.533	0.194
Crude protein (%)	30.29	1.480
Fat (%)	6.50	1.042
Ash (%)	7.64	0.433
Neutral detergent fibre (%)	11.40	0.425
Acid detergent fibre (%)	8.49	0.348
Acid detergent lignin (%)	1.8	2.204
Acid detergent cellulose (%)	4.01	0.101
Condensed tannins (mg/g)	3.12	0.104
Total polyphenols (%)	2.02	0.390

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Table 2. Mineral contents of Moringa extract powdered		
Amino acid	Quantity (mean+/- %)	Std error
Arginine	1.78	0.010
Serine	1.087	0.035
Aspartic acid	1.43	0.045
Glutamic acid	2.53	0.062
Glycine	1.533	0.060
Threonine*	1.357	0.124
Alanine	3.033	0.006
Tyrosine*	2.650	0.015
Proline	1.203	0.006
HO-Proline	0.093	0.006
Methionine*	0.297	0.006
Valine*	1.413	0.021
Phenylalanine*	1.64	0.006
Isoleucine*	1.177	0.006
Leucine*	1.96	0.010
Histidine*	0.716	0.006
Lysine*	1.637	0.006
Cysteine	0.01	0.000
Tryptophan*	0.486	0.001
*General essential amino acids.		

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Table 3. Mineral contents of Moringa extract powdered		
Mineral	Extract	Std error
Macro-elements (%) Calcium %	3.65	0.036
Phosphorus %	0.30	0.004
Magnesium %	0.50	0.005
Potassium %	1.50	0.019
Sodium %	0.164	0.017
Sulphur %	0.63	0.146
Micro-elements (mg/kg)		
Zinc (mg/kg)	31.03	3.410
Copper (mg/kg)	8.25	0.143
Manganese (mg/kg)	86.8	3.940
Iron (mg/kg)	490	49.645
Selenium (mg/kg)	363.00	0.413
Boron (mg/kg)	49.93	2.302

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Table 4. FAME(% of total fatty acids) composition Moringa extract powdered		
	Quantity (mean+/- %)	Std error
Capric (C10:0)	0.07	0.064
Lauric (C12:0)	0.22	0.402
Myritic (C14:0)	1.91	1.633
Palmitic (C16:0)	24.65	0.625
Palmitoleic (C16:1c9)	0.22	0.056
Margaric (C17:0)	5.1	0.155
Stearic acid (C18:0)	3.37	0.406
Oleic (C18:1c9)	3.96	2.000
Vaccenic (C18:1c7)	0.36	0.038
Linoleic (C18;2c9,12(n-6)	8.31	0.014
Eicosatrienoic C20:3c11,14,17(n-3)	0.14	0.000
Nonoadecanoic C19:0	0.11	0.000
g-Linolenic (C18:3c6,9,12 (n-6)	0.20	0.013
α-Linolenic (C18:3c9,12,15(n-3)	43.31	2.803
Arachidic (C20:0)	0.94	0.105
Heneicosanoic (C21:0)	6.26	0.194
Behenic (C22:0)	1.53	0.383
Tricosanoic (C23:0)	0.15	0.025
Lignoceric (24:0)	3.79	0.000
Total saturated fatty acids (SFA)	44.89	0.815
Total mono unsaturated fatty acids (MUFA)	3.37	1.984
Total poly unsaturated fatty acids (PUFA)	51.75	2.792
Total Omega-6 fatty acids (n-6)	8.31	0.012
Total Omega-3 fatty acids (n-3)	43.44	2.805
PUFA: SFA (PUFA:SFA)	1.15	0.096
n-6/n-3	0.19	0.016
PUFA: MUFA (PUFA:MUFA)	15.34	7.168

Table 5. Vitamin contents of Moringa extract powdered		
Mineral	Extract	Std error
Mg/100g		
Vitamin A-B carotene	16.3	1.304
Vitamin B1 thiamin	2.64	0.2112
Vitamin B2 riboflavin	20.5	1.64
Vitamin B3 nicotinic acid	8.2	0.656
Vitamin C ascorbic acid	17.3	1.384
Vitamin E tocopherol acetate	113	9.04