

Supplementary Data:

Table 1. Constituents present in different parts of moringa tree.

Parts	Phytochemical constituents
Stem	octacosanic acid, 4-hydroxymellein, vanillin, β -sitosterone and β -sitosterol
Bark	4-(α -L-rhamnopyranosyloxy)-benzylglucosinolate
Whole gum exudates	L-arabinose, D-galactose, L-rhamnose, D-mannose, D-xylose, D-glucuronic acid and leucoanthocyanin
Leaves	Glycoside niazirin, niazirinin and three mustard oil glycosides, 4-[4'-O-acetyl- α -L-rhamnosyloxy) benzyl] isothiocyanate, niaziminin A and B
Mature flowers	D-mannose, D-glucose, protein, ascorbic acid, polysaccharide
Whole pods	Nitriles, isothiocyanate, thiocarbanates, 0-[2'-hydroxy-3'-(2''-heptenyloxy)]-propylundecanoate, 0-ethyl-4-[(α -1-rhamnosyloxy)-benzyl] carbamate, methyl-p-hydroxybenzoate and β -sitosterol
Mature seeds	Crude protein, Crude fat, carbohydrate, methionine, cysteine, 4-(α -L-rhamnopyranosyloxy)-benzylglucosinolate, benzylglucosinolate, moringyne, mono-palmitic and di-oleic triglyceride
Seed oil	Vitamin A, beta carotene, precursor of Vitamin A
Roots	4-(α -L-rhamnopyranosyloxy)-benzylglucosinolate and benzylglucosinolate

Table 2. Different compounds present in leaves and pods of moringa

Leaves	Pods		
Niaziminin A	Pentacosane	4-(p-Hydroxy) Phenyl ethylbutanoate	9-Octadecenoic acid
Niaziminin B	Heptacosane	Isothiocyanato hexanoic acid	4, 10-Dimethyl-13-nonacosanol
4-(2',3',4'-Tri-Oacetyl-a-L-rhamnosyloxy) benzyl nitrile	Nonacosane	Octadecanoic acid	Docosanoic acid
Niazicinin A	Sulfur	Eicosanoic acid	15-Cyano-2-methyl pentadecanoic acid
Methyl-4-(2',3',4'-tri-O-acetyl-a-L-rhamnosyloxy) benzyl carbamate (E)	Methyl hexadecanoate	Tetracosanoic acid	9, 12-Octadecadienoic acid
Methyl-4-(2',3',4'-tri-O-acetyl-a-L-rhamnosyloxy) benzyl thiocarbamate (E)	Ethyl pentadecanoate	β -Sitosterol Propyl-p-hydroxy benzoate	4,11-Dimethyl-12-docosanol
Methyl-4-(2',3',4'-tri-O-acetyl-a-L-rhamnosyloxy) benzyl thiocarbamate (Z)	Ethyl hexadecanoate	Heptadecadien - 2 one	Methyl p-hydroxybenzoate
Methyl-4-(2',3',4'-tri-O-acetyl-a-L-rhamnosyloxy) benzyl carbamate (Z)	Ethyl heptadecanoate	6-Methyl docosane	11-Cabonyl-12, 16-dioxo-14-hydroxy-18-tricoasene
Niazimicin B	Methyl octadecanoate	Ethyl octadeca-9,12-dienoate	Ethyl-4(a-L-rhamnosyloxy) benzyl carbamate
Ethyl-4-(2',3',4'-tri-O-acetyl-a-L-rhamnosyloxy) benzyl carbamate (E)	Ethyl octadecanoate	Docoasen-8-ol	p-Hydroxybenzyl ethyl carbamate
Niazicin B	Ethyl eicosanoae	p-Hydroxyphenyl methoxyethance	Tetradecanoic acid
O-Ethyl-4 (2',3',4'-tri-O-acetyl-a-L-rhamnosyloxy) benzyl thiocarbamate (Z)	Ethyl docosanoate	6, 9-Dimethyl dodecanoic acid	Heptadecanoic acid
Niazinin B	Ethyl 9-octadecenoate	8-Heptadecanol	Dodecanyl isothiocyanate
Niazimicin A	Ethyl tricosanoate	8-Nonadecanol	9-Methyl-eicoasen-1, 11-diol
Niazinin A	Ethyl-9-hexadecenoate	9-Methyl pentadecene isothiocyanate	p-Aminobenzaldehyde
Niazirinin	Methyl octadeca-9, 12-dienoate	Hexadecanoic acid	p-Hydroxyphenyl acetonitrile
NiaziminB	Ethyl heptadeca-9, 12-dienoate	6-Methyl eicosane	2-Octadecanone
4 (4'-O-Acetyl-a-L-rhamnosyloxy) benzaldehyde	Ethyl 9-nonadecenoate	1-Ethoxytricontane	Methyl 9-octadecenoate
Niazimin A	9-Methyl octadecane nitrile	1-Ethoxyheptadecane	Tetradecanyl isothiocyanate
Niazicin A	Isothiocyanato-4-hexenoic acid	Heptadecane nitrile	1-Ethoxypentadecane
4-(4'-O-Acetyl-a-Lrhamnosyloxy) benzyl isothiocyanate	Isothiocyanato-3-pentenoic acid	10-Methyl nonadecane isocyanate	Heptadecane isocyanate
Niazirin	7-(p-Hydroxy) phenoxy heptanoic acid	Tridecene	Octadecane isocyanate
4-(a-L-Rhamnosyloxy) benzyl isthiocyanate	(p-Hydroxy) Phenoxy acetic acid	p-Hydroxybenzoic acid	Tricosane isothiocyanate



