












"Drumstick Tree" - "Horseradish Tree"

"Malunggay" - "Miracle Tree" - "Murunga"








"Nébédáy" - "Never Die Tree" - "Tree of Life"



		Moringa Fresh Leaf	Moringa Dried Leaf	Moringa Seeds	Apple	Orange	Blueberry	
	All Serving Sizes: Per 100g							
 Moringa Oleifera	Vit A	6780	36000	100	38	225	54	IU
	Vit B (Choline)	423	-	423	-	-	-	mg
	Vit B1 (Thiamine)	0.2	2.6	0.1	0	0.1	0	mg
	Bit B2 (Riboflavin)	0.1	21	0.1	0	0	0	mg
	Vit B3 (Niacin)	0.1	8.2	0.3	0.1	0.4	0.4	mg
	Vit B5 (Pantothenic Acid)	0.1	-	-	0.1	0.3	0.1	mg
	Vit B6	1.2	-	-	0	0.1	0.1	mg
	Vit B9 (Folate)	40	-	-	0	17	6	mcg
	Vit C	220	17	120	4	45	9.7	mg
	Vit E	448	113	-	0.1	0.2	0.6	mg
	Vit K	-	2	-	0.6	0	20.3	mcg
 Moringa Oleifera	Potassium	259	1324	259	90	169	77	mg
	Phosphorus	70	204	110	11	12	12	mg
	Magnesium	24	368	24	4	10	6	mg
	Calcium	440	2006	30	5	43	6	mg
	Iron	7	28.2	5.3	0.1	0.1	0.3	mg
	Selenium	1	> 1	-	-	0.5	0.1	mcg
	Sulpur	137	870	137	0	-	-	mg
	Manganese	1.9	8.4	-	0	10	0.3	mg
	Copper	1.1	0.6	3.1	0	0	0.1	mg
	Zinc	0.2	3.3	-	0.1	0.1	0.2	mg
	Fibre	0.9	19.2	4.8	1.3	2.4	2.2	g

**** N.B. All values highlighted in RED represent a "TMF Super Food Rating" ... a high content for a specific nutrient / trace nutrient ****

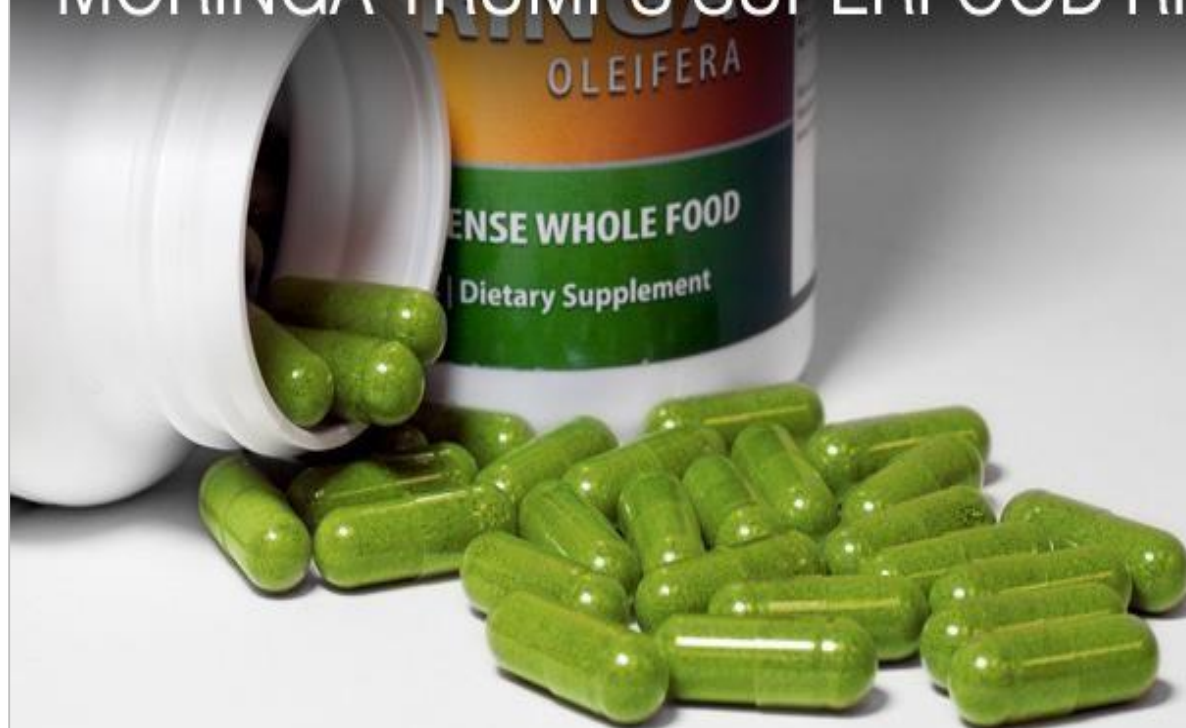
Can "an apple a day" really keep the doctor away? what do you think?

Leafy Greens Chart		#1	#2	#3	#4		Low	Low	
		Moringa Dried Leaf	Moringa Fresh Leaf	Arugula	Spinach		Cabbage	Iceberg Lettuce	
	All Serving Sizes: Per 100g								
Leafy Greens Vitamins	Vit A	36000	6780	2373	2813		98	502	IU
	Vit B1 (Thiamine)	2.6	0.2	0	0		0.1	0	mg
	Vit B2 (Riboflavin)	21	0.1	0.1	0.1		0	0	mg
	Vit B3 (Niacin)	8.2	0.1	0.3	0.2		0.2	0.1	mg
	Vit B5 (Pantothenic Acid)	-	0.1	0.4	0.1		0.2	0.1	mg
	Vit B6	-	1.2	0.1	0.1		0.1	0	mg
	Vit B9 (Folate)	-	40	97	58.2		43	29	mcg
	Vit C	17	220	15	8.4		36.6	2.8	mg
	Vit E	113	448	0.4	0.6		0.2	0.2	mg
	Vit K	2	-	109	145		76	24.1	mcg
Leafy Greens Minerals	Potassium	1324	259	369	167		170	141	mg
	Phosphorus	204	70	52	14.7		26	20	mg
	Magnesium	368	24	47	23.7		12	7	mg
	Calcium	2006	440	160	29.7		40	18	mg
	Iron	28.2	7	1.5	0.8		0.5	0.4	mg
	Selenium	870	1	0.3	0.3		0.3	0.1	mcg
	Manganese	8.4	1.9	0.3	0.3		0.2	0.1	mg
	Copper	0.6	1.1	0.1	0		0	0	mg
	Zinc	3.3	0.2	0.5	0.2		0.2	0.2	mg
	Fibre	2.3	0.9	1.6	0.7		2.5	1.2	g

** N.B. All values highlighted in **RED** represent a "TMF Super Food Rating" ... a high content for a specific nutrient / trace nutrient **

Can "an apple a day" really keep the doctor away? what do you think?

MORINGA TRUMPS SUPERFOOD RIVALS IN ORAC TESTS

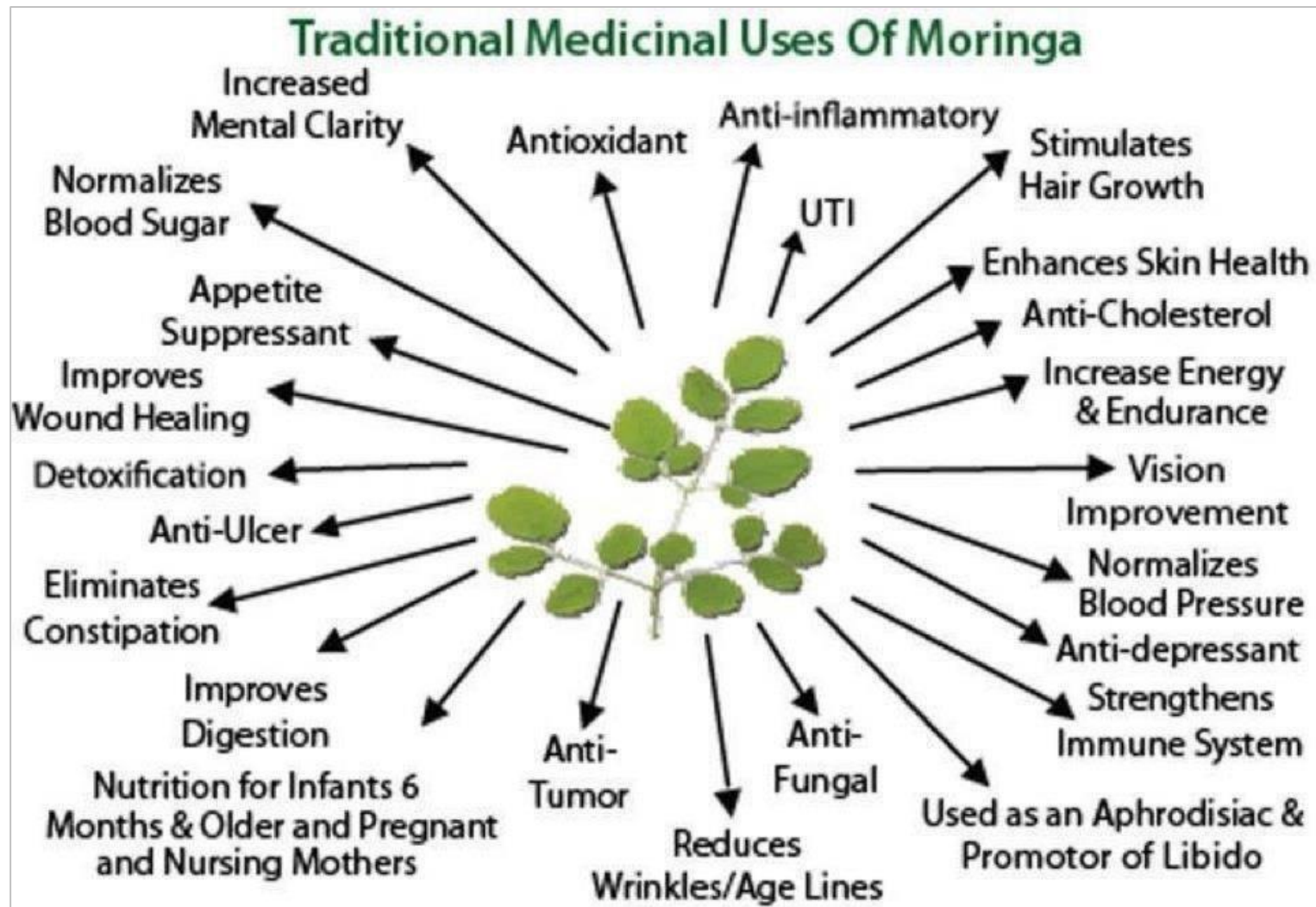


ORAC Value (μ mole TE/100g)

• Moringa oleifera	157,600
• Matcha tea	134,800
• Turmeric, ground	127,068
• Acai, fruit	102,700
• Dark chocolate	20,800
• Garlic, raw	5,700
• Red wine	3,600
• Green tea	1,240

Oxygen Radical Absorbance Capacity (or ORAC value score) is a measurement of antioxidants in foods and supplements.

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sources: treesforlife.org, International Research Journal Of Pharmacy Vol. 3, Iss. 6, 06/2012

v1.1 - 09/2012 - pierre jdlf

location

grows quickly & easily in tropical / sub-tropical climate

Fidel Castro Ruz
Cuba - June 17, 2012

origin: Himalaya

« let's start mass production ! »



flowers



leaves

fresh dry salad tea



pods (drumsticks)



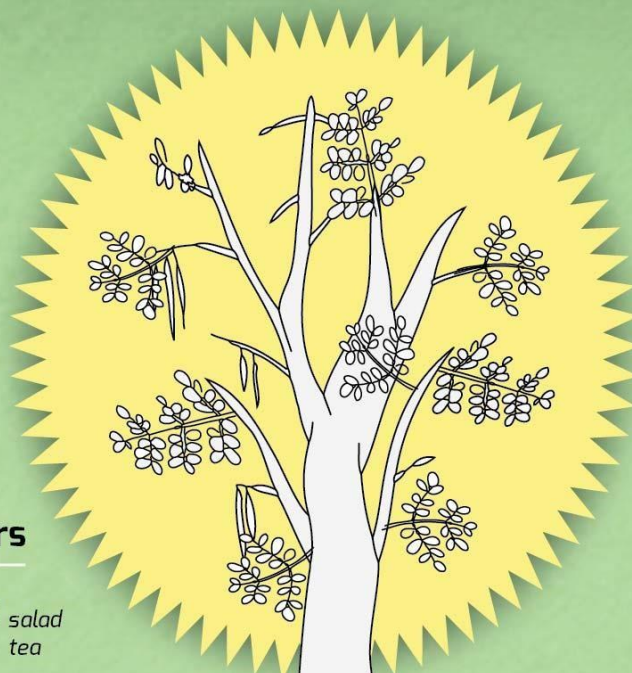
seeds

can replace alumin sulfate
to purify water

oil

cooking
cosmetics

roots



aka: ben - benzolive - horseradish

drumstick - mulaga - nbedaye ...

moringaceae family
moringa
oleifera

« the miracle tree »

pharmacology

the following has been scientifically proven
more numerous positive effects are still under researchanti asthmatic
anti inflammatory
anti oxydant
anti microbial
anti cancer
anti diabetichypotensive
hepatoprotective
anti epileptic
anti urolithiatic
diuretic
...

nutrition

overcome malnutrition, especially for infants / nursing mothers
more vitamins, minerals & proteins than most of vegetables
dry leaves content comparison :

calcium	4 x	milk
magnesium	36 x	egg
potassium	3 x	banana
iron	25 x	spinach
protein	2 x	milk
polyphenol	8 x	red wine
amino acid	2 x	black vinegar
R-amino acid	4 x	gaba tea
chlorophyll	4 x	wheat grass
vitamin A	4 x	carrot
C	7 x	orange
B	4 x	porc meat
B ₂	50 x	sardine
B ₃	50 x	peanut
E	3 x	almonds

Image Source: (<http://visual.ly/moringa>)

Fresh Leaves

Gram for gram Fresh
Leaves Contain:



Dried Leaves

Gram for gram Dried
Leaves Contain:



4 times the Vitamin A of Carrots



7 times the Vitamin C of Oranges



4 times the Calcium of Milk



3 times the Potassium of Bananas



3 times the Iron of Spinach



2 times the Protein of Yogurt



3 times the Vitamin E of Almonds



10 times the Vitamin A of Carrots



1/2 the Vitamin C of Oranges



17 times the Calcium of Milk



15 times the Potassium of Bananas



25 times the Iron of Spinach



9 times the Protein of Yogurt



12 times the Vitamin E of Almonds

MORINGA'S 9 ESSENTIAL AMINO ACIDS

Essential Amino Acid	Health Benefits
Histidine	Increase the body's resistance to environmental toxins and allergens; is also a mild vasodilator helps increase blood circulation; has been used to treat rheumatoid arthritis and poor hearing
Isoleucine	Maintains normal blood sugar and energy levels and increase endurance important for diabetics
Leucine	Build muscles, enhance energy levels and stamina; also promote bone and skin and muscle tissue healing recommended for those recovering from injuries, stress or surgery; also help to lower blood sugar level and aids in increasing growth hormone production
Lysine	Helps calcium absorption and bone development; also aids in the production of antibodies (protective proteins of the immune system); hormones and enzymes, in skin maintenance and formation and tissue repair
Methionine + Cystine	Sulfur-containing amino acids are involved in detoxification help neutralize and eliminate harmful toxins and protect the body against radiation damage caused by UV rays and X-rays; helps to protect the liver and brain from damage due to toxins such as alcohol, drugs and environmental pollutants; proteins of fingernails, skin and hair promote elasticity of skin that fights skin aging; Cystine has anti-inflammatory properties; recommended supplement in the treatment of some forms of cancer
Phenylalanine + Tyrosine	Synthesize two key brain transmitters that promote alertness: dopamine and norepinephrine; can elevate mood, decrease pain, help in memory and even help suppress appetite; should be supplemented in the treatment of depression, arthritis, obesity and Parkinson's disease
Threonine	Important for the formation of collagen and elastin two main proteins of the skin; also helps to protect liver and has lipotropic function (against fatty liver); enhances the immune system in the production of antibodies and promotes thymus (a gland vital for the function of the immune system)
Tryptophan	Required in the production of niacin (vitamin B3 and serotonin (the neurotransmitter involved in relaxation and sleep)); controls depression and insomnia, stabilizes moods, also helps migraine sufferers
Valine	Needed for muscle metabolism and structure, used as an energy source by muscle tissue, thus preserving the use of glucose and supplying stamina; studies have shown that it is useful in restoring mass in people with liver disease or after physical stress, injuries and surgery

Moringa Oleifera – “Miracle Tree” - “Tree of Life”

*"And he showed me a pure river of water of life. . .
In the midst of the street of it, and on either side of the river,
was there a Tree o Life which bare twelve manner of fruits,
and yielded her fruit every month;
and the leaves of the tree were for the healing of the nations...
And there shall be no more curse."*

www.mamamoringa.com/moringa_oleifera.html



The pods and leaves of Moringa trees are used for food in numerous cultures throughout the world.

First cultivated in **Northern India**, it was incorporated into a number of religious and cultural observances, some of which continue to this day. Oil derived from the seeds of the Moringa was used as food and in unguents by the ancient **Greeks, Romans** and **Egyptians** and were part of the **Ayurvedic** health diet in **India**. The tree's hardy nature and multitude of uses has led to its cultivation in many areas including the **West Indies**, where it is a valuable source of food and oil products.

The leaves, flowers and seed pods of the tree are highly nutritional and provide a number of necessary nutrients, including **protein, beta carotene, calcium and Vitamin C**. Because the Moringa tree can be grown in a wide range of climates and requires little water in order to produce leaves, pods and flowers, it is well suited to provide nutrition in areas of the world where food is scarce, including **Asia** and **Africa**.

Every part of the tree can be consumed or used by either humans or animals, making it even more useful for combating malnutrition in these areas of the world. This is especially important for young children, pregnant women and lactating mothers who require additional nutritional support during these critical formative stages. The calcium and other nutrients available in the plant products offer solid food value at a minimal cost for these high-risk individuals.

A number of organizations also recommend the plant as a food source for **AIDS patients**, who may require additional vitamin and mineral supplements to remain relatively healthy due to their weakened immune systems. <http://www.themoringa.com/moringa-information>

Long overlooked by the medical establishment, the medical benefits of Moringa have only recently been explored in the scientific setting.

A number of recent studies have shown evidence that the plant is useful in boosting the levels of certain antioxidant enzymes within the body and reducing the overall level of toxic substances retained in body tissue; this may reduce the risk of **cancer** in individuals who include this versatile plant in their daily diet.

The plants contain a compound called pterygospermin that contains a powerful natural antibiotic and antimicrobial substance known as **benzyl isothiocyanate**. This **antibiotic** has been proven effective against **Helicobacter pylori**, one of the most pervasive microbial threats to residents of poverty stricken areas around the globe. *Helicobacter pylori* can cause **gastritis** and may be responsible for **duodenal and gastric ulcerations**, as well as **gastric cancer**.

Benzyl isothiocyanate acts as a near-specific antibiotic counter to this microbe and can help to protect against the microbe's negative effects on the body even at low dosages. Additionally, a study conducted by Bharali, Tabassum and Azad and published in the [Asian Pacific Journal of Cancer Prevention in 2003](#) showed a correlation between ingestion of benzyl isothiocyanate compounds and a reduction in skin cancer growths in mice.

While further research is needed, the evidence for the pharmaceutical benefits of Moringa plant compounds continues to mount with further research. <http://www.themoringa.com/moringa-information>



Moringa Oleifera is a Valuable Medicine

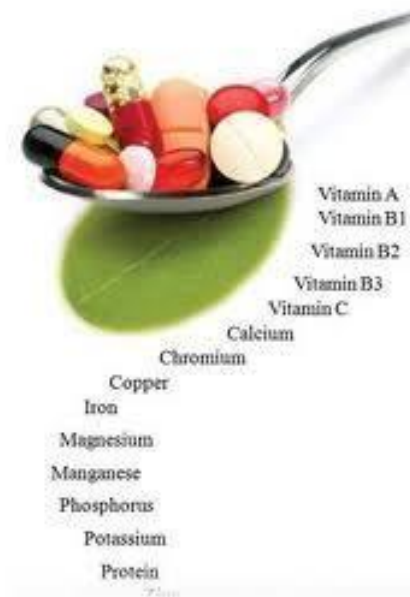
Moringa leaves, pods and roots have been used for centuries in Ayurveda treatments. Ayurveda tradition says that the plant offers remedies for 300 different conditions.

As a result, its leaves and pods have been used in traditional Indian medical practices for **anemia, high and low blood pressure, blood disorders, skin blemishes, fever** and many other ailments. It has even been used to treat **bronchitis** and other **respiratory disorders**, as well as **tuberculosis** and **cholera**.

Many Ayurvedic practitioners recommend a tonic of the leaves for **liver disorders** and childbirth discomfort, since a natural **anti-biotic** action is present in the chemical components present in the leaves and seeds. Additionally, oil pressed from seeds is used as a topical application for a variety of **skin and muscle ailments**. Moringa decoctions have also been used to treat **intestinal worms** and a variety of **sexual ailments**.

In traditional and Ayurvedic medicine, the plant has also been used to treat **eye and ear infections, diarrhea, joint pain, hysteria** and **glandular disorders** and is considered to be a preventative measure for a number of different types of **cancer**, especially **skin cancers** and **cancers of the digestive or glandular systems**. It is also used to treat certain **cancers** after they manifest themselves.

(Source: <http://www.themoringa.com/moringa-information>)



**Moringa Oleifera is grown
throughout most
tropical and sub-tropical regions
of the world.**

Moringa Oleifera – “Miracle Tree” - “Tree of Life”

“Yes, with this savior, the Miracle tree, Moringa Oleifera, the curse of 500 years of slavery and colonialism on the African people will be lifted.

Weakened immunity, poor health, the basic cause, the etiology of HIV /AIDS, is the final curse, the one which was designed to be the straw to break the spine of the black people forever.

The Savior appeared at the darkest hour of this pandemic, when almost all hope was lost, and when the problem overwhelmed the people.

www.mamamoringa.com/moringa_oleifera.

How different parts of the Moringa Tree *can* be used:

Leaves

The leaves of the moringa tree are capable of treating 300 diseases. Moringa leaves are an excellent source of vitamin A, B vitamins, calcium, iron and protein. When consumed, moringa leaves can boost the immune system and increase metabolism. The leaves can also provide nourishment to the eyes and brain because of the high amount of vitamin A. Moringa leaves also help regulate cholesterol and blood sugar levels. In addition, they can improve function of the liver and kidneys and relieve inflammation. The leaves can be eaten as greens in salads, in vegetables curries and for seasoning. They are pounded up to make moringa leaf powder.

Flowers

The flowers must be cooked and either mixed with other foods or fried in batter and has been shown to be rich in potassium and calcium. Juice from the flowers improves the production and value of breast milk. The juice also promotes urination, which is beneficial for many urinary-tract disorders. In some cultures, moringa leaves are used in a tea for colds.

Pods

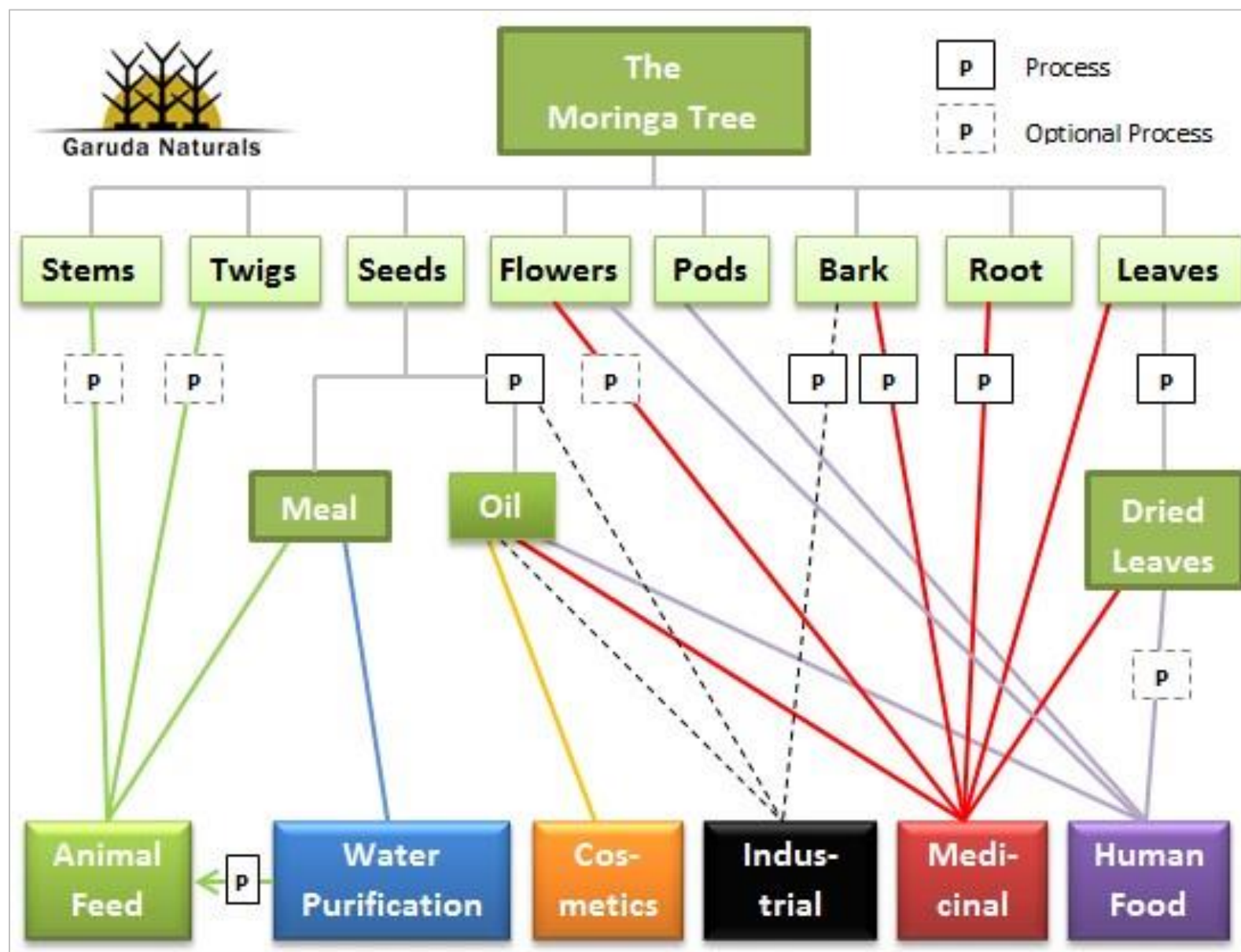
The immature pods are the most valued and widely used part of the moringa tree. The pods can be consumed raw or prepared similarly to green beans. When consumed raw, the pods act as a de-wormer. They are rich in protein and fiber, which alleviates diarrhea. Immature pods can be steamed and served as a vegetable. Matured pods usually shelled, producing moringa seeds. These moringa seeds are then consumed like peas or perhaps roasted like nuts for a nutritious snack.

Seeds

These moringa seeds are full of nutrients and also can be easily digested. Moringa seeds contain a good amount of vitamin A, B, C, D, and E, as well as iron. It is also able to make your minor injuries like bruises, cut, or even burns heal faster because of the nutrients it has. Moringa seeds also used to produce valuable moringa oil. After moringa seeds harvested, it is pressed to produce moringa oil. Moringa oil is very rich in nutrients; it is often used in health & beauty products. Producing moringa oil, the extraction of moringa oil leaves equally valuable moringa seed cake. Moringa seeds can be crushed and added to contaminated water to destroy 90% germs and reduce turbidity thus making it reasonably potable.

Roots and Bark

The roots and bark of the moringa tree contain all the nutrients of the seeds but in much higher quantities. Because of this, care must be taken if these parts are consumed for medicinal purposes. The roots and bark can be used to treat several cardiac and circulatory ailments, according to Miracle Trees. These parts are also useful in treating inflammation and digestive disorders and promoting appetite. Some cultures in Senegal and India pound the roots and bark and then add salt to create a topical treatment. This ointment is used to treat rheumatism, lower back pain and kidney pain. (Source - <http://planet-moringa.com/uses.html>)



Leaves:
Nutrition
Medicine



Trees:
Alley Cropping
Erosion Control



Flowers:
Medicine



Pods:
Nutrition
Medicine



Consider the Possibilities

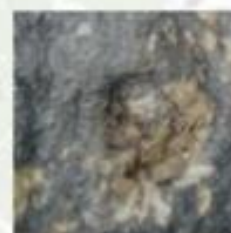
Nutrition • Disease Prevention • Ointment • Alley Cropping • Fertilizer • Erosion Control • Water Purification • Cosmetics • Textile Printing • Insecticide • Fungicide • Lubricants • Tanning Leather • Dye • Fiber Products • Fences • Ornamentation & Shade • Wind Barrier • Cane Juice Clarifier • Honey Production & Clarifier • Condiment • Cooking Oil • Food • Traditional medicine: Anemia • Anxiety • Asthma • Blackheads • Blood impurities • Blood pressure • Bronchitis • Catarrh • Chest congestion • Cholera • Colitis • Conjunctivitis • Cough • Diabetes • Diarrhea • Dropsy • Dysentery • Eye and ear infections • Fever • Glandular swelling • Gonorrhea • Headaches • Hysteria • Intestinal worms • Jaundice • Lactation • Malaria • Pain in joints • Pimples • Pregnancy • Psoriasis • Respiratory disorders • Scurvy • Semen deficiency • Skin infections • Sore throat • Sores • Sprain • Stomach ulcers • Tuberculosis • Tumor • Urinary disorders • Wounds



Roots:
Medicine



Seeds:
Water Purification
Medicine
Oil



Gum:
Medicine

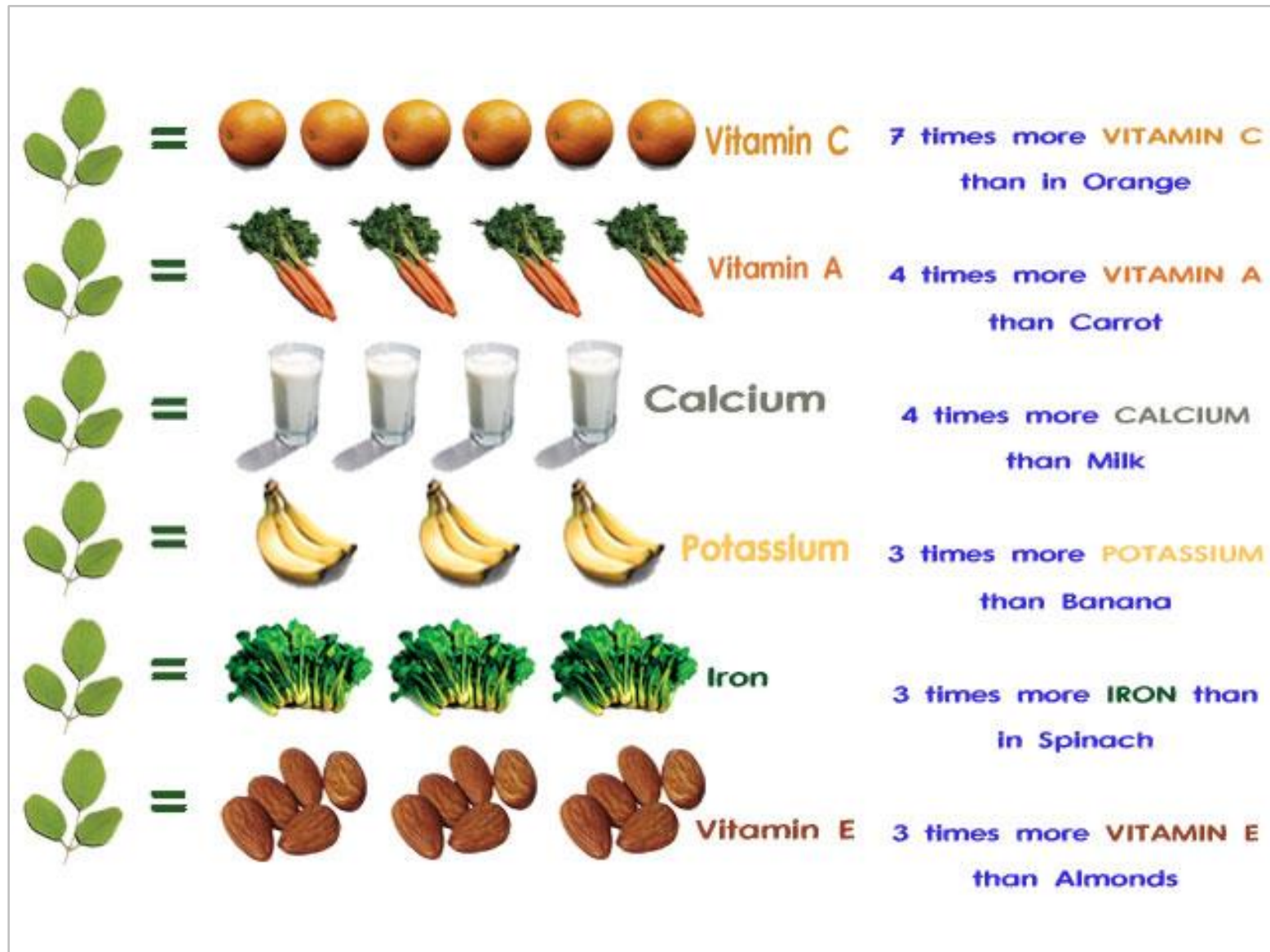


Bark:
Medicine

Sources: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Not only are the leaves highly nutritious, but every single part of the Moringa tree has been used for beneficial purposes. Here again is the list of all the many specific uses people have found for Moringa. [When the words "Consider the Possibilities" appear:] It's time that we seriously consider the possibilities that Moringa holds for benefiting our world.

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Moringa oleifera - Contains Two Important Classes of Natural Compounds

Moringa Source™

Antioxidants:

Vitamin A
Vitamin C
Vitamin E
Vitamin K
Vitamin B (Choline)
Vitamin B1 (Thiamin)
Vitamin B2 (Riboflavin)
Vitamin B3 (Niacin)
Vitamin B6
Alanine
Alpha-Carotene
Arginine
Beta-Carotene
Beta-sitosterol
Caffeoylquinic Acid
Campesterol
Carotenoids
Chlorophyll
Chromium
Delta-5 Avenasterol

Delta-7-Avenasterol
Glutathione
Histidine
Indole Acetic Acid
Indoleacetonitrile
Kaempferol
Leucine
Lutein
Methionine
Myristic Acid
Palmitic Acid
Prolamine
Proline
Quercetin
Rutin
Selenium
Threonine
Tryptophan
Xanthins
Xanthophyll
Zeatin
Zeaxanthin

Anti-inflammatories

Vitamin A
Vitamin B1 (Thiamin)
Vitamin C
Vitamin E
Arginine
Beta-sitosterol
Caffeoylquinic Acid
Calcium
Chlorophyll
Copper
Cystine
Omega 3
Omega 6
Omega 9
Fiber
Glutathione
Histidine
Indole Acetic Acid
Indoleacetonitrile
Isoleucine
Kaempferol

Leucine
Magnesium
Oleic Acid
Phenylalanine
Potassium
Quercetin
Rutin
Selenium
Stigmasterol
Sulfur
Tryptophan
Tyrosine
Zeatin
Zinc

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Moringa Source™

Moringa oleifera Data Sheet - Moringa Leaf Powder

Moringa oleifera is a species of tree native to the Himalayan Mountains of Northern India, now cultivated across Southeast Asia, Africa and South America. Packed with a full spectrum of nutrients, Moringa oleifera is one of the most nutrient dense plants ever studied. The nutritional benefits of Moringa leaf powder support a number of key bodily functions and organs including cardiovascular, neurological, prostate, vision, digestion, metabolic and immune systems. Moringa leaf powder contains a nutrient profile that includes anti-oxidants, anti-inflammatories, proteins, vitamins, amino acids, flavonoids, fibers, minerals, chlorophyll, beta carotene and phenols – a total of more than 90 beneficial natural compounds.

Typical Analysis of Moringa leaf powder*

Macronutrients (per 100 g)

Moisture (%)	7.5
Calories	205
Protein (g)	27.1
Fat (g)	2.3
Carbohydrates (g)	38.2
Fiber (g)	19.2

Minerals (per 100 g)

Calcium	2003
Magnesium	368
Phosphorus	204
Potassium	1324
Copper	19.1
Iron	28.2
Zinc	3.29

Physical characteristics

Appearance	Powder
Color	Rich green
Flavor	Tart

Amino acids (g/16 g N)

Arginine	1.33
Histidine	0.61
Isoleucine	1.32
Leucine	1.95
Lysine	1.32
Methionine	0.35
Phenylalanine	1.39
Threonine	1.19
Tryptophan	0.43
Valine	1.06

Vitamins (mg per 100g)

Vitamin A - Beta Carotene	16.3
Vitamin B1 - Thiamin	2.6
Vitamin B2 - Riboflavin	20.5
Vitamin B3 - Nicotinic acid	8.2
Vitamin C - Ascorbic acid	17.3
Vitamin E - Tocopherol acetate	113.0

Allergens: This product is free of milk, eggs, fish, crustacean shellfish, tree nuts, peanuts, wheat, soybeans and gluten.

*Fuglie, L.J. "The Miracle Tree: Moringa oleifera, Natural Nutrition for the Tropics". Church World Service, Dakar, Senegal. 1999.

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www.moringasource.com, info@moringasource.com

antibacterial and antiviral properties, and show strong activity against the tuberculosis bacteria.

SOME TRADITIONAL HERBAL REMEDIES WITH MORINGA

Many people said that Moringa had helped greatly to improve their general health. Some said that their short sight had improved.

1. CUTS AND WOUNDS

Pound fresh leaves into a paste. Cover the wound with this paste, bandage and leave for 3 days.

2. A WOMAN HAS GIVEN BIRTH AND IS BLEEDING.

Pound fresh leaves add a little water and give her to drink.

3. PREVENTION OF POLIO.

Give flowers to children to eat to prevent polio.

4. CHRONIC SORES

Take some roots, wash them and scrape the outside layer off. Heat in water. Use the water to wash the wound. Then dress as outlined in number 1 above

5. EPILEPSY.

Pound the bark or the roots of a mature tree. Add tender leaves and a little water. Smear this paste over the face and the whole body. Also put a little of the pounded root in a handkerchief and inhale.

6. TO BRING FEVER DOWN.

Dip a Moringa branch into water and stroke the whole body. Then give Moringa tea to drink.

7. SNAKE AND SCORPION BITES.

Pound the root, add leaves and apply to the bite. Stops the poison from spreading.

8. SHORT SIGHT.

Wash the flowers in salt water, chew and swallow. Take three times daily. Or cook the flowers in palm oil.

9. TO CLEANSE THE BLOOD.

Wash the root and remove the bark (not the "bast", i.e. the inner layer immediately under the bark that carries the sap from the roots to the leaves). Put into water that has just boiled and has been removed from the heat. The water changes colour. Mix with a few Moringa leaves. Thereafter, take every day take Moringa leaves in water.

10. BRAIN POWER FOR SCHOOL CHILDREN – especially under-performing children.

Wash Moringa root, remove the bark and soak in water for two days until the water changes color (brown / pink). Remove the roots, take one cup of the liquid and mix with half a cup of honey. Give to the child first thing in the morning – then he should have no breakfast until 9 o'clock. He can even take it again in the evening. Prepare this root water fresh every day.

Note: Heating Moringa causes it to lose its healing properties!

11. SEVERE STOMACH-ACHE

Pound two seeds and take with medicinal charcoal.

12. STOMACH PAINS

Chew and eat two seed kernels and drink a cup of water.

13. ARTHRITIC PAINS

Chew and eat two seed kernels in the morning and two again at night. Rub the oil on the affected parts morning and night.

No.	Benchmarks	Characteristics of Ideal Mother Plant
1	Seed germination	>70%
2	Self Life of seed	Up to one year
3	Seed weight	About 1300-1500 seeds per kg
4	No. of seeds in a fruit	Three seeds
5	Oil content	34%-37%
6	No. of Branches per Tree	15-18 Branches per Tree
7	Female to male flowers	2:8
8	Physical /genetically Purity(Min)	90% 80% Purity in next generations.
9	Leaf	Five lobed
10	Resistant to Pest and Diseases	YES
11	Drought Resistant	Grow in between 400 to 1200mm
12	Acclimatization	Adoptability to any soil and climatic conditions
13	Low gestation period	From Second year
14	Response to cultural practices	Good response
15	High Yielding	5-12 mt in non-irrigated/ irrigated