

Moringa

Nano Concentrate - Liquid

Anti Oxidant / Anti Inflammator/ A Prebiotic

Small size of nanoparticles enables them to pass through natural biological barriers, such as the intestinal epithelia, facilitating better entry into the body and target sites.

Moringa oleifera is a perennial herb tree called "the Miracle Tree" because of its impressive nutritional profile and potential health benefits. Moringa contains plenty of nutrients such as vitamins A, B, and C, calcium, iron, protein, and antioxidants, which makes it an excellent choice for a nutritious low calories diet.

AMAZING FACTS OF MORINGA

It is an excellent choice for vegetarians and vegans, contains all essential amino acids.

Moringa is loaded with antioxidants, benefits your immune system by helping your body fight infections and reducing inflammation.

Its high dietary fibres content and anti-inflammatory properties help with digestion, reduce bloating, and promote a healthy gut



HEALTH BENEFITS

Protecting Liver:
Moringa contains polyphenols and flavonoids that act as antioxidants and detoxifiers. Protects the liver from toxins, improve lipid profile, which reduces fatty deposits in the live.

Cardiovascular Health:
Moringa extract rich in antioxidants, helps in lowering cholesterol, triglycerides, and blood pressure

Fighting bacterial infections:
Acts as a natural antimicrobial agent. Disrupt microbial cell membranes & inhibit bacterial replication

Treating anemia and Malnutrition:
Contains excellent source of iron, protein, and vitamins, essential amino acids for treating malnutrition and iron-deficiency anemia.

Management of Blood Sugar :
Moringa may help manage diabetes by improving blood sugar control, enhancing insulin sensitivity, and reducing oxidative stress due to its antioxidant properties. It can lower fasting blood glucose levels and has bioactive compounds that help the body use insulin more effectively. However, it is crucial to consult a doctor before adding moringa to your regimen, as it can interact with diabetes medications.

WHO SHOULD CONSUME MORINGA

Vegetarians and Vegans, making it a complete plant protein source.

Malnourished Individuals due to its dense nutrient content

For general wellness, moringa boosts energy

Pregnant and Breastfeeding Women

People with High Blood Pressure or High Cholesterol

People with Iron Deficiency / Anemia

PACKAGING/STORAGE/SHELF LIFE

Storage Condition:
Store in cool and dry place in original packing. Avoid exposure to extreme conditions

Packaging:
5kg/25kg Aluminium can/
Packed under Sterilized condition

Shelf Life:
18 months if stored in specified storage conditions.

APPLICATION DETAILS

S.No.	Various Applications	Main Claims Markers for Recommended Applications	Recommended Dosage / Bulk Batch (For the Manufacturer of a Consumer brand)	Effective Dosage / Serving (For the Ultimate Consumer)	Recommended Dosage / Day		
					For Adults	For Teenagers	For Kids (5-10 yrs)
1.	Milk Fortification*	Protein and Calcium	30 L of Nano-Concentrate Moringa Liquid / 1000 L batch	Adults : 15 - 20 mL x Single Serving	15 - 20 mL	15 - 20 mL	7 - 10 mL
2.	Fruit Juice Fortification	Protein and Calcium	30 - 50 L of Nano-Concentrate Moringa Liquid / 1000 L batch	Adults : 5 - 7 mL x Three Servings	15 - 20 mL	15 - 20 mL	7 - 10 mL
3.	Plant Based Health Drinks	Protein (containing all 9 essential Amino Acids), Minerals (Calcium & Potassium, Magnesium and Zinc) Vitamins (Vitamin A and Folates), Bioactives (Flavonoids, Polyphenols)		Adults : 8 - 10 mL x Four Servings	30 - 40 mL	30 - 40 mL	15 - 20 mL
4.	Fortification of Protein Drinks with Plant based Nutrition			Adults : 8 - 10 mL x Four Servings	30 - 40 mL	30 - 40 mL	15 - 20 mL
5.	Fortification of Child Focused Drinks to counter Child Malnutrition			Childs: 10 - 15 mL x Three Servings		30 - 45 mL	
6.	For Plant based energy Drinks (Safer & Healthier option than Energy drinks with Synthetic caffeine)			Adults : 8 - 10 mL x Four Servings	30 - 40 mL	30 - 40 mL	15 - 20 mL
7.	For Happy Morning Tea/ Coffee & / or Morning Milk or Smoothies			5 - 10 mL x Single Serving	5-10 mL	5-10 mL	

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This is a Nutritional Supplement and not a replacement for medical treatment.



NUTRITIONAL VALUE

Nutritional Data

Calorific Value	210-211 kcal/100g
Protein	3-4 g /100g
Carbohydrate	28-31 g /100g
Soluble fiber	9-10 g /100g

Functional Bioactive

Bioflavonoid	238-241 mg/kg
Polyphenols	1250-1260 mg/kg

Minerals

Potassium	154-156 mg/100g
Calcium	317-319 mg/100g
Zinc	0.53-0.55 mg/100g
Magnesium	87-89 mg/100g
Sodium	9-10 mg/100g
Iron	0.8-0.9 mg/100g
Phosphorus	40-42 mg/100g

Sensory Data

Appearance	Liquid
Colour	Brown colour
Flavor and Odour	Characteristic
Taste	Green beans flavor

Vitamins

Biotin	150-152 mcg/100g
Folic acid	0.15-0.18mcg/100g
Cyanocobalamin (vit B12)	10-12 mcg/100g
Riboflavin (vit B2)	25-27 mg/100g

Heavy Metals

Lead (Pb)	<0.05 mg/kg
Cadmium (Cd)	<0.05 mg/kg
Arsenic (As)	<0.05 mg/kg
Mercury (Hg)	<0.02 mg/kg

SCIENTIFIC STUDY REFERENCES

Effect of Moringa Oleifera leaf powder supplementation on reducing anemia in children below two years in Kisarawe District, Tanzania., Shija AE, Rumisha SF, Oriyo NM, Kilima SP, Massaga JJ, Food Sci Nutr. 2019 Jul 4;7(8):2584-2594. doi: 10.1002/fsn3.1110. PMID: 31428346; PMCID: PMC6694432.

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