

Chewable and Nutritious *Moringa Oleifera* Leaves Tablets (PATENT/ID/C) NO. PI2017701083



Leaves

Formulation
with other
ingredients



Tablets

100g of *Moringa Oleifera* Leaves Powder = 100g of



10 times more Vitamin A
than Carrot



1/2 times Vitamin C
than Orange



17 times more Calcium
than Milk



15 times more Potassium
than Banana



25 times more Iron than
Spinach



9 times more Protein
than Yogurt

INTRODUCTION OF TECHNOLOGY

Moringa oleifera leaves powder contains anti-oxidants, anti-inflammatory compounds, phenolics, flavonoids and complete protein with essential amino acids. The high moisture content in fresh leaves and bitter taste upon drying make these leaves highly perishable and difficult to swallow in raw form, respectively. The present invention is a unique formulation of *Moringa oleifera* leaves and fruit powder which is easily chewable, nutritious, natural, economical and can be served as food supplement for all age group of peoples. The standardization of invented tablet was done according to the prescribed parameters of FDA and International Pharmacopeia for disintegrating tablets

INVENTION

The present Moringa orally disintegrating tablet (ODT) is the first ever reported herbal-based orally disintegrating tablet. These tablets contain 40% Moringa leaves which is highest concentration in any kind of ODT. The existing direct compression tablet manufacturing method make its manufacturing easy.

These tablets are the cheapest natural source of vitamins (A, B-complex, C, D, E & K), nutrients (Ca, Fe, Zn, K, P & Mg), protein (all 9 essential amino acids), anti-inflammatory compounds and phenolics.

ADVANTAGES

- ✓ Please mouth feel taste and fruit flavour
- ✓ Rapid action due to fast disintegration
- ✓ Eliminate first pass effect (dissolve in mouth)
- ✓ Non-toxic (one tablet/kg body weight is safe)
- ✓ No need of water
- ✓ Easy handling, storage and transportation

Vitamins	Units	RDA	UL	5 tablets contained	% RDA
β-carotene (A)	mg/d	0.6	5	0.6	105
Thiamine (B1)	mg/d	0.9	ND	0.1	12
Riboflavin (B2)	mg/d	0.9	ND	0.1	10
Niacin (B3)	mg/d	12	35	0.3	3
Ascorbic acid (C)	mg/d	45	2000	0.1	0.4
A-tocopherol (E)	mg/d	15	1000	0.7	5

MARKET POTENTIAL

This is first ever herbal-based ODT. Therefore no competition in herbal market while it is much cheaper than synthetic multi-vitamins/nutrients. The manufacturing cost of each tablet is just RM 0.08.

Consumer/End User

- ✓ Children
- ✓ Adults
- ✓ Malnourished community

Industry

- ✓ Pharmaceutical industry
- ✓ Nutraceutical industry
- ✓ Herbs and medicinal plant medicine manufacturer



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