

# DIAB'O'VITA

*Diabetic Care*

*Don't Sugarcoat it !!*



**DIMENSIONS**

The Wisdom of Human Healing  
Using **MOTHER NATURE**,  
The Real **GAME CHANGER**

For Millions of people in every Continent  
Around the **WORLD!!!**

The Secret, to improved Health and Longevity is  
Usage of Whole, **"PLANT BASED FOOD"**

# WHY DIABOVITA

Normal cells require proper nourishment food including sugars which are available naturally as carbohydrates for functional energy. Sugars are metabolized by Insulin, a hormone produced by islets of Langerhans of Pancreas, and utilized by all cells. Insufficient production of Insulin or improper metabolism of sugars result Diabetes mellitus. As a result of this, the blood sugar levels are raised above the normal and excessive amount might spell into urine. In India, during 2022, 10.1 crore persons were suffering from Diabetes and approximately 2.5 crore persons were Pre-diabetic, which is further expected to increase in the coming decade.

DIABOVITA contains sprouted horse gram & green gram with millets like barnyard millet, foxtail millet, little millet & kodo millet, provide food quantities of macro-nutrient, minerals like calcium, magnesium, potassium selenium & zinc, and vitamins like Vitamins A, C, riboflavin & niacin. These provide anti-oxidative effect as well as calming effect on your mood. Sprouted green gram & soy, provide good quality protein to aid in malnourished states. Most of the millets have a low glycemic index, which means food is absorbed slowly at the same time provides constant supply of sugars for functional energy.

Due to low glycemic index, secretion of insulin will also depended upon the utilization of sugars. Further millets provide a feeling of satiety which may regulate the intake of the quantity of food. Soy improves the Haemoglobin status of the individual because of the rich ferrous content in it. Horse gram has high protein & fibre.

DIABOVITA, with its composition of millets, pulses, lentils provides good quality and quantity of protein & fibre for 1 meal (the quantity), and helps to feel energized. The variety of minerals viz. calcium, magnesium potassium along with the vitamins A, B & C help in improving the immunity of the individual. Antioxidant activity of millets might be correlated with antidiabetic activity (Ref 1).

Finger millet has shown potential decrease in the post-prandial hyperglycemia(Ref 2,3).

Pearl millet shall recover the islet of Langerhans and improves insulin production (Ref 4).

Dietary polyphenols are known to reduce carbohydrate digestibility and regulate postprandial glycemic response. The botanicals help to reduce oxidative stress and some may provide relief from symptoms of malnutrition, excessive urination, thirst, etc.(Ref 5).

# FOOD SUPPLEMENTS

Botanicals like *Occimum sanctum* (Tulsi) is natural immunity booster, pain and stress reliever. Tulsi and *Tinosporacordifolia* (Giloy) contain anti-oxidants which promote the proper utilization of sugars. Galactomannan, 4-hydroxyisoleucin (4-OH-Ile), diosgenin and trigonelline, phytochemicals present in *Gymnemasylvestre* BBr, After ingestion of Gymnemic acid the pancreas tissue increases the secretion of insulin which promotes the regeneration of Islet cells of Langerhans and enhances the utilization of glucose (Ref 6, 7).

*Syzygiumcumini*(L.) contains Mycaminose, ethyl acetate and methanol extracts possess anti-diabetic effects against STZ-induced diabetic rats. Further the hypoglycaemic and hypolipidemic activities of Jamun may be due scavenging of free radicals as diabetes is caused by excess oxidative stress (Ref 8, 9, 10, 11, 12). *Trigonellafoenum-graceum* L. act as anti diabetic and good digestive effect will reduce the blood glucose levels (Ref 13).

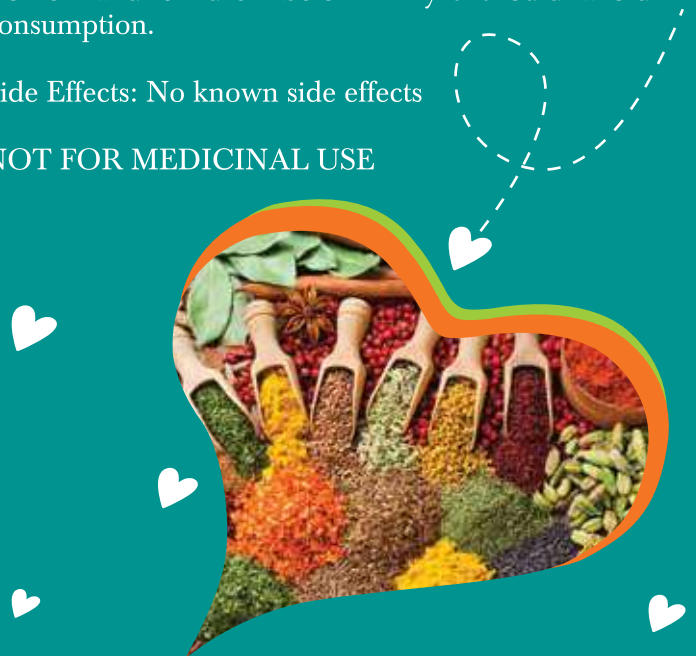
*Momordicacharantia* displays insulin-like properties, remarkably stimulates glycogen storage by the liver and improves peripheral glucose uptake (Ref 14). *Cinnamomumzeylanicum* Blume, *Curcuma longa* L., *Salacia raticulata* Wight, have shown anti-diabetic activity. Diabovita is found effective in controlling Diabetes in vitro experiment.

DIABOVITA Target Users: Persons who are malnourished, especially Diabetic patients or suffering from digestive issues during treatment benefit by consuming DIABOVITA.

Recommended Dosage: 20gm preferably twice a day with 200ml water, buttermilk or milk. Avoid full fat milk. Special Precautions: Pregnant and lactating women and children below 12 yrs should avoid consumption.

Side Effects: No known side effects

NOT FOR MEDICINAL USE



## REFERENCE :

1. Antidiabetic prospects of dietary bio-actives of millets and the significance of the gutmicrobiota: A case of finger millet, Vineet Singh, GyuDae Lee et al. Frontier in Nutrition Dec 2022.
2. Antidiabetic properties of finger millet (*Eleusine-coracana*(L) Gaertn.) varieties cultivated in Sri Linka, SooriyaArachchige et al. Jr. of Herbal Medicin Vol 32 Mar 2022 100534
3. Antioxidant And Antidiabetic Properties Of *Eleusine-coracana* (L.) Geartn. (Finger Millet) Seed Coat Matter InStreptozotocin Induced Diabetic Rats Okoyomoh K., Okere O.S., Olowoniyi O.D. and Adejo G.O. et al ASJ International Journal of Advances in Herbal and Alternative Medicine (IJAHAM)Vol. 1(1) 07 December, 2013, Pp. 01 – 09 [www.academiascholarlyjournal.org/ijaham/index\\_ijaham.htm](http://www.academiascholarlyjournal.org/ijaham/index_ijaham.htm)
- 4 Anti-Diabetic Effect Of Dried And Germinated Pearl Millets Grains On Streptozotocin Induced Diabetic Rats. Afaf, O.Ali , Nivin, S. Nail et al. J. Biol. Chem. Environ. Sci., 2018, Vol. 13(2): 413-432 <http://biochemv.sci.eg>
5. Managing Diabetes Mellitus with Millwts; A New Solution Pragma Agrawal, Brij Raj Singh et al. Cureus Aug 2023
6. *Gymnemasylvestre* (Gurmar): A Potent Herb with Anti-Diabetic and Antioxidant PotentialSuparnaLaha, Santanu Paul Pharmacogn J. 2019; 11(2):201-206
7. A Review of Anti-diabetic Activity of *Gymnemasylvestre* and *Pterocarpus marsupium*: Special Emphasis on its Combination in 4DM ..Aminul Islam, Leroy Rebello, SreesudhaChepyala et alInternational Journal of Nature and Life Sciences (IJNLS) <https://www.dergipark.gov.tr/ijnlse-ISSN:2602-2397> Vol. 3(2), December 2019, pp. 40-51
8. Antidiabetic potential and related activity of Jamun (*Syzygiumcumini* Linn.) and its utilization in Unani medicine: An overview, GaziJahangeer Rather, Hamidudin, MD et al International Journal of Herbal Medicine 2019; 7(5): 07-11
9. Antidiabetic and antioxidant functionality associated with phenolic constituents from fruit parts of indigenous black jamun(*Syzygiumcumini* L.) landraces, H. P. Gajera1, Shila N. et al J Food SciTechnol (September 2017) 54(10):3180–3191 DOI 10.1007/s13197-017-2756-8
10. A review on the role of jamun, *syzygiumcuminis*keels in the treatment of diabetes, Ganesh Chandra Jagetia, International Journal of Complementary & Alternative Medicine Volume 11 Issue 2 – 2018
11. Anti-diabetic activity of *Syzygiumcumini* and its isolated compound against streptozotocin-induced diabetic rats A. Kumar, R. Ilavarasan, T et al Journal of Medicinal Plants Research Vol. 2(9), pp. 246-249, September, 2008
12. Review: Study of Antidiabetic activity of *Syzygiumcumini* (Linn.)Seeds, SwaranjaliPanditPatil, SaloniGajananTalekar International Journal of Pharmaceutical Research and Applications Volume 7, Issue 6 Nov-Dec 2022, pp: 691-695 [www.ijprajournal.com](http://www.ijprajournal.com) ISSN: 2456-4494
13. Anti-diabetic Effect of Sprouted *Trigonellafoenumgraecum* L. Seed Solid Dosage Form in Low-dose Streptozotocin Induced Diabetic Rats, Ashwini Kumar Mishra, Pravat Kumar Sahoo et al Indian Journal of Pharmaceutical Education and Research | Vol 56 | Issue 4 | Oct-Dec, 2022
14. Comparative Effect Of Aqueous Extract Of *Trigonellafoenum-graecum* And *MomordicaCharantia* On Diabetic Wistar Rats, Gulzar Ahmad Bhat, Shahzada Arif Hussain et al International Journal Of Research In Pharmacy And Chemistry Available online at [www.ijrpc.com](http://www.ijrpc.com) IJRPC 2018, 8(1), 177-182

**STRENGTHEN  
YOUR RESISTANCE  
AGAINST  
DIABETES**



## Antidiabetic and antioxidant functionality associated with phenolic constituents from fruit parts of indigenous black jamun (*Syzygium cumini* L.) landraces

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## Anti-diabetic Effect of Sprouted *Trigonella foenum-graecum* L. Seed Solid Dosage Form in Low-dose Streptozotocin Induced Diabetic Rats

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### TEST REQUIREMENT :

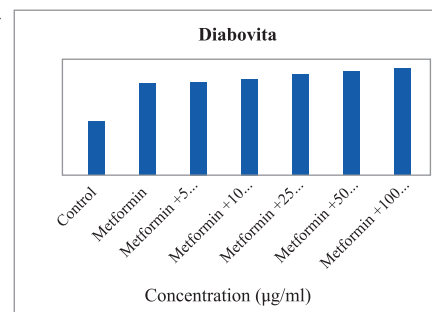
- In vitro Screening of anti-cancer adjuvant activity of Dietary Supplement
- The samples to be tested as follows:

S.No.	Customer Name	Compound Name	Cell Line
	HOLIN AWARD NUTRACEUTICALS LLP CHENNAI	DIABOVITA (DIABETIC CARE)	HepG <sub>2</sub>

### RESULT:

Studied the glucose uptake of Diabovita concentrations of 5 to 100 µg/ml with metformin 0.1µg/ml. The Diabovita increasing of concentration from 5 to 100 µl/ml increases the glucose utilization in HepG<sub>2</sub> Cells in dose dependent manner compared to untreated control ( Table 1 & Figure 1).

Extract (µg/ml)	OD	Glucose Utilization (0% Control)	SD
Control	0.628	100	1.25
Metformin	1.032	164.33	1.92
Metformin +5 Diabovita	1.046	166.56	2.41
Metformin +10 Diabovita	1.071	170.54	2.72
Metformin +25 Diabovita	1.119	178.18	3.18
Metformin +50 Diabovita	1.134	180.57	3.46
Metformin +100 Diabovita	1.163	185.35	4.31



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"LET FOOD BE THE MEDICINE AND MEDICINE BE THE FOOD"

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