



Diabetone™

Serving Size 3 capsules

Servings Per Container 30

	Amount Per Serving
Gymnema Sylvestre Extract & Leaf (25% Gymnemic acid)	300 mg
Chromium (polynicotinate)	475 mcg
Fenugreek Seed 15:1 extract (trigonella foenum-graecum)	300 mg
Quercetin	200 mg
Momordica Charantia Extract	150 mg
Alpha lipoic acid	150 mg
Bilberry Extract (25% Anthocyanosides)	50 mg
Inositol	60 mg
Vanadium (pentoxide aspartate)	25 mg
Biotin	13,600 mcg
Rutin	50 mg

SUGGESTED DOSE: As a dietary supplement, take 1-2 capsules three times per day or as directed by your health care practitioner.

REFERENCES:

- Zhang H, Osada K, Maebashi M, et al. A high biotin diet improves the impaired glucose tolerance of long-term spontaneously hyperglycemic rats with non-insulin –dependent diabetes mellitus. *J Nutr Sci Vitaminol.* 1996;42:517-526.
- Schechter Y, Li J, Meyerovitch J, et al. Insulin-like actions of vanadate are mediated in an insulin-receptor-independent manner via non-receptor protein tyrosine kinases and protein phosphotyrosine phosphatases. *Mol Cell Biochem.* 1995;153:39-47
- Halberstam M, Cohen N, Schimovich P, et al. Oral vanadyl sulfate improves insulin sensitivity in NIDDM but not in obese nondiabetic subjects. *Diabetes.* 1996;45:659-666.
- Boden G, Chen X, Ruiz J, et al. Effects of vanadyl sulfate on carbohydrate and lipid metabolism in patients with non-insulin-dependent diabetes mellitus. *Metabolism* 1996;45(9):1130-1135.
- Lindsay LA. Trivalent chromium and the diabetes prevention program. *Med Hypotheses.* 1997;49:47-49.

DIABETONE™

VITAMIN, MINERAL, & HERBAL SUPPORT FOR HEALTHY BLOOD SUGAR METABOLISM

- Promotes healthy blood sugar balance
- Nutritionally supports blood sugar level regulation
- Nutritional support for metabolic function

DIABETONE™ is a complete product that addresses blood sugar function and promotes healthy balance and regulation.

GYMNEMA SYLVESTRE is standardized for gymnemic acid content and has been shown to enhance pancreatic beta cell activity and reproduction, thereby improving endogenous insulin output.

VANADIUM (VANADYL SULFATE) is a salt that has demonstrated insulin-like effects on glucose metabolism. Vanadium appears to enhance insulin receptors at tissue receptor sites. Vanadium improves insulin sensitivity in NIDDM patients.

CHROMIUM has been shown to enhance glucose metabolism and transport. insulin responsiveness in skeletal muscle and fat cells. Beneficial effects have also been noted on the serum lipids, cholesterol, triglycerides, HDL cholesterol, and LDL cholesterol.

ALPHA LIPOIC ACID improves insulin resistance in NIDDM patients. Alpha Lipoic Acid favorably influences the glucose transport proteins GLUT1 and GLUT4, thereby enhancing glucose uptake and utilization.

BIOTIN is a B vitamin that has been shown to have insulin-like effects and enhances glucose uptake at the insulin receptor site.

FENUGREEK SEED AND MOMORDICA (CHARANTIN) are natural herbal concentrates have demonstrated improved glucose tolerance and improved glycemic control. Both herbs have been shown to reduce elevated serum glucose levels.

TEL: 425.487.0788 / 866.272.0500

FAX: 425.485.3518

www.bio-genesis.com

DIABETONE™

MYOINOSITOL acts as an activator of adenosine triphosphate (ATP) energy mechanisms. It is reported to aid in glycogen utilization, fat metabolism (lipotropic effect), and oxidative phosphorylation. These actions benefit diabetics through enhanced glucose utilization, fat metabolism, and improved energy production through efficient ATP production.

QUERCETIN AND RUTIN are flavonoids that have been shown to act as antioxidants protecting lipids from oxidation (lipid peroxidation). They also quench the peroxide free radical. Mast cell stabilization and reduction of release of inflammatory mediators is also a benefit of quercetin and rutin.

BILBERRY EXTRACT with its anthocyanidin pigments has been shown to protect delicate optic structures. Vaccinium extracts can help lower the risk of developing diabetic retinopathy and cataracts.

RECOMMENDED FOUNDATIONAL SUPPORT:

ULTRAGENESIS™ MULTIVITAMIN/MINERAL COMPLEX (WITH OR WITHOUT IRON):

It is recommended that all your patients be on a therapeutic balanced multivitamin/mineral supplement. With this in mind, we recommend UltraGenesis™. This multivitamin/mineral is rich in antioxidants, coenzyme B vitamins, and macro and micro minerals chelated to the best mineral transporters for ease of absorption.

7. Jacob S, Streeper RS, Fogt DL, et al. The antioxidant alpha-lipoic acid enhances insulin-stimulated glucose metabolism in insulin-resistant rat skeletal muscle. *Diabetes* 1996;45:1024-1029.

8. Roeback JR Jr, Hla KM, Chambless L, Fletcher RH. Effects of chromium supplementation on serum high-density lipoprotein cholesterol levels in men taking beta-blockers. *Ann Intern Med.* 1991;115:917-924.

9. Anderson RA, Cheng N, Bryden NA, et al.

Elevated

intakes of supplemental chromium improve glucose and insulin variables in individuals with type 2 diabetes.

Diabetes. 1997;46:1786-1791.

10. Rivellese A, Giacco A, Genovese S, et al.

Effect

of dietary fibre on glucose control and serum lipoproteins in diabetic patients. *Lancet.* 1980;2:447-449.

11. Krezowski PA, Nurrall FQ, Gannon, MC,

Bartosh

NH. The effect of protein ingestion on the metabolic response to oral glucose in normal individuals.

Am J Clin Nutr. 1986;44:847-856.

12. Guevin N, Jacques H, Nadeau A, Galibors I.

Postprandial glucose, insulin, and lipid responses to four meals containing unpurified dietary fiber in non-insulin-dependent diabetes mellitus (NIDDM), hypertriglyceridemic subjects.

J Am Coll Nutr. 1996;15(4):389-396.

13. Feldman N, Norenberg C, Voet H, Manor E,

Berner Y, Madar Z. Enrichment of an Israeli ethnic food with fibres and their effects on the glycemic and insulinaemic responses in subjects with non-insulin-dependent diabetes mellitus. *Br J Nutr.* 1995;74:681-688.

14. Jacob S, Ruus P, Hermann R, et al. Oral administration of RAC-lipoic acid modulates insulin sensitivity in patients with type-2 diabetes mellitus: a placebo-controlled pilot trial. *Free Rad Biol Med.* 1999;27:309-314.

15. Estrada DE, Ewart HS, Tsakiridis T, et al.

Stimulation of glucose uptake by the natural coenzyme

alpha lipoic acid/thiolic acid. *Diabetes* 1996;45:1798-1804.