Glucostatic Balance

Supports Healthy Insulin and Blood Sugar Levels

Biogenetix
Nutrition Uncompromised

PRODUCT BENEFITS*

- **Supports healthy metabolism**
- **Supports healthy glucose levels**
- **Promotes healthy insulin levels**

Glucostatic Balance is a vitamin, mineral, and herbal based formulation designed to support healthy blood sugar metabolism, normal insulin receptor site sensitivity, and healthy insulin responses. This product also helps to buffer the bodies response to the glycemic load.

SUPPLEMENT FACTS

Serving size: 2 Capsules Servings per container: 90	Amount Per Serving	% Daily Value
Vitamin E (as D-Alpha Tocopheryl Succinate)	42.88 mg	286%
Thiamin (as Thiamin HCl)	7 mg	583%
Riboflavin	7 mg	538%
Niacin (as Niacinamide and Nicotinic Acid)	32 mg	200%
Vitamin B6 (as Pyridoxine HCl)	4 mg	235%
Folate (as L-5-Methyltetrahydrofolate Calcium)	107 mcg DFE	27%
Vitamin B12 (as Cyanocobalamin)	7 mcg	292%
Biotin	428 mcg	1,427%
Pantothenic Acid (as Calcium D-Pantothenate)	43 mg	860%
Choline (as Choline Bitartrate)	57 mg	10%
Magnesium (as Magnesium Citrate)	36 mg	9%
Zinc (as Zinc Glycinate)	7 mg	64%
Selenium (as L-Selenomethionine)	29 mcg	53%
Manganese (as Manganese Gluconate)	4 mg	174%
Chromium (as Chromium Polynicotinate)	200 mcg	571%
Proprietary Blend N-Acetyl L-Cysteine, Gymnema Leaf Extract, Berberine HCl, R-Alpha Lipoic Acid, L-Carnitine (as L-Carnitine L-Tartrate), Para-Aminobenzoic Acid (PABA), Inositol, Garcinia Fruit Powder, Rehmannia Root Powder, Poria Mycelium Powder, *Lagerstroemia speciosa* (Banaba) Leaf Powder, Bitter Melon Fruit Powder, Organic Cassia Bark Powder, *Vicia faba* (Broad) Bean Powder, Fenugreek Seed Powder, Guggul Gum Resin Powder, Vanadium (as Vanadyl Sulfate)	494 mg	**

** Daily Value Not Established

Other Ingredients: Gelatin (Capsule), Microcrystalline Cellulose, Magnesium Stearate.

DIRECTIONS FOR USE

Take 2 capsules once per day, or as directed by your health care professional.

STORAGE

Store in a cool, dry place away from direct sunlight. Product from unopened containers that have been stored under recommended conditions (55-85° F / 13-29° C) may be used for up to 36 months.

WARNING

Consult your health care professional before use if pregnant, nursing, taking medications, or for any use by minors. Do not use if safety seal is broken or missing. Keep out of reach of children.

*To be provided by health care professionals only. The dosage recommendations are only for your health care provider's consideration. Please consult your health care provider for your individual dosing instructions. This product is for nutritional purposes only. It is not designed to diagnose, treat, reverse, cure, or prevent any disease. This product is not intended to replace or delay the use of prescription medication. These statements have not been evaluated by the FDA. All rights reserved © Biogenetix, LLC

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REFERENCE LIST

1. Abdel-Aziz MT, Abdou MS, Soliman K, et al. Effects of L-carnitine on blood lipid patterns in diabetic patients. Nutr Rep Int 1984;29:1071-1079.
2. Anderson HU, Jorgensen KH, Egeberg J. Nicotinamide prevents interleukin-1 effects on accumulated insulin release and nitric oxide production in rat islets of langerhans. Diabetes 1994;43:770-777.
3. Anderson R, Cheng N, Bryden, et al. Beneficial effects of chromium for people with type II diabetes. Diabetes. 1996;45:124A.
4. 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.
5. Anderson RA, Polansky MM, Bryden NA, Canary JJ. Supplemental-chromium effects on glucose, insulin, glucagon, and urinary chromium losses in subjects consuming controlled low-chromium diets. Am J Clin Nutr 1991 :54:909-916.
6. Barbagallo M, Dominquez LJ, Tagliamonte MR, et al. Effects of vitamin E and glutathione on glucose metabolism: role of magnesium. Hypertension 1999; 34:1002-1006.
7. 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;45:1130-1135.
8. Chen MD, Lin PY, Lin Wh. Investigation of relationship between zinc and obesity. Kao Hsiung I Hsueh Tsa Chih 1991 ;7:628-634.
9. Clearly JP. Vitamin B3 in the treatment of diabetes mellitus: case reports and review of the literature. J Nutr Med 1990; 1 :217-225.
10. Cohen N,Halberstam M, Shlimovih P, et al. Oral vanadyl sulfate improves hepatic and peripheral insulin insensitivity in patients with non-insulin dependent diabetes mellitus. J Clin Invest. 1995;95:2501-2509.
11. Dominguez LJ, Barbagallo M, Sowers JR, Resnick LM. Magnesium responsive- ness to insulin and insulin-like growth factor I in erthrocytes from normotensive and hypertensive subjects. J Clin Endocrinol Metab 1998;83:4402-4407.
12. Evans GW, Browman TD. Chromium picolinate increases membrane and rate of insulin internalization. J Inorg Bio 1992;46:243-250.
13. French RJ, Jones PJ. Role of vanadium in nutrition: metabolism, essential and dietary considerations. Life Sciences. 1992;52:339-346.
14. Goldfine AB, Simonson DC, Folli F, et al. Metabolic effects of sodium metavandate in humans with insulin-dependent and noninsulin-dependent diabetes mellitus in vivo and vitro studies. J Clin Enco and Meta. 1995;80(11);3311-3319.
15. Greco AV, et al. Effect of propionyl-L-carnitine in the treatment of angiopathy: Controlled double blind trial versus placebo. Drugs Exp Clin Res 1992;18:69-80.
16. Gunal AI, Celiker H, Donder E, Gunal SY. The effect of L-carnitine on insulin resistance in hemodialysed patients with chronic renal failure. J Nephrol 1999; 12:38-40.
17. Halberstm M, Cohen N, Shlimovish P, et al. Oral vanadyl sulfate improves insulin sensitivity NIDDM but not in obese nondiabetic subjects. Diabetes. 1996; 45:659-665.
18. Hegazi SM. Effects of zinc supplementation on serum glucose, insulin, glucagons, glucose-6-phosphate, and mineral levels in diabetics. J Clin Biochem Nutr 1992;12:209-215.
19. Heller W, Mushi HE, Gaebel G, et al. Effect of L-carnitine on post-stress metabolism in surgical patients. Infusiosther Klin Ernahr 1986;13:268-276.
20. Humphries S, Kushner H, Falkner B. Low dietary magnesium is associated with insulin resistance in a sampling of young, nondiabetic Black Americans. Am J Hypertens 1999;12:747-756.
21. Jacob S, Henriksen EJ, Schiemann AL, et al. Enhancment of glucose disposal in patients with Type 2 diabetes by alpha-lipoic acid. Arzneim-Rosch Drug Res 1995;45(2):872-874.
22. Jacob S, Ruus P, Hermann R, et al. Improvement of insulin-stimulated glucose-disposal in type 2 diabets after repeated patenteral administration of thioctic acid. Exp Clin Endocrinol Diabetes 1996;104:284-288.
23. Jacob S, Ruus, Herman R, et al. Oral administration of RAC-alpha-lipoic acid modulates insulin sensitivity in patients with type-2 diabetes: a placebocontrolled pilot trial. Free Radie Biol Med 1999;27:309-314.
24. Jacob S, Streeper RS, Fogt DL, et al. The antioxidant alpha-lipoic acid enhances insulin-stimulated glucose metabolism in insulin resistant rate skeletal muscle. Diabetes 1996;45:1024-1029.
25. Jain SK, McVie R, Jaramillo JJ, et al. Effect of modest vitamin E supplementation on blood glycated hemoglobin and triglyceride levels and red cell indices in type I diabetic patients. J Amer Col Nutr 1996;15(5);458-461.
26. Kaskaran K, et al. Antidiabetic effect of a leaf extract from Gymnema sylvestre in non-insulin dependent diabetes mellitus patients. J Ethnopharmacol 1990; 30: 295-305.
27. Kawabata T and Packer L. Alpha-lipoate can protect against glycation of serum albumin, bu nto low density lipoprotein. Biochem Biophys Res Comm 1994; 203:99-104.
28. Khare AK, Tondon RN, Tewari JP. Hypoglycemic activity of an indigenous drug (Gymnema sylvestre, 'Gurmar') in normal and diabetic persons. Indian J Physiol Pharmacol 1983;27(3):257-8.
29. Konard T, Vicini P, Kuster K, et al. Alpha-lipoic acid treatment decreases serum lactate and pyruvate concentrations and improves glucose effectiveness in lean and obese patients with type 2 diabetes. Diabetes Care 1999;22(2):280-287.
30. Kutosikos D, Fourtounas C, Kepetanaki A, et al. Oral glucose tolerance test after high-dose i.v. bioitin administration in normoglucemic hemodialysis patients. Ren Fail 1996;18:131-137.
31. Leslie ROG, Elliot RB. Early environmental events as a cause of IDDM. Diabetes 1994;43:843-850.
32. Levine R, Streeten D, Doisy R. Effect of oral chromium supplementation on the glucose tolerance of elderly human subjects. Metabolism 1968;17:114-125_
33. Maebashi M, Makino Y, Furukawa Y, et al. Therapeutic evaluation of the effect of biotin on hyperglycemia in patients with non-insulin dependent diabetes mellitus. J Clin Biochem Nutr 1993;14:211-218.
34. Mingrone G, Greco AV, Capristo E, et al. L-carnitine improves glucose disposal in type 2 diabetic patients. J Am Coll Nutr 1999;18:77-82.
35. Mooradian AD, Morley JE. Micronutrient status in diabetes mellitus. Am J Clin Nutr 1987;45:877-895.
36. Nadler JL, Buchanan T, Natarajan R, et al. Magnesium deficiency produces insulin resistance and increased thromboxne synthesis. Hypertension 1993;21:1024-1029.
37. Nagamstsu M, et al. Lipoic acid improves nerve blood flow, reduces oxidative stress, and improves distal nerve conduction in experimental diabetic neuropathy. Diabetes Care 1995;18:1160-1167.
38. Offenbacher EG, Pi-Sunyer FX. Beneficial effect of chromium-rich yeast on glucose tolerance and blood lipids in elderly subjects. Diabetes 1980;29:919-925.
39. Paolisso G, D'Amore A, Galzenano D. Daily vitamin E supplementations improve metabolic control but not insulin secretion in elderly type II diabetic patients. Diabetes Care 1993;16:1433-1437.
40. Paolisso G, D'Amore A, Guigliano D, et al. Pharmacologic doses of vitamin E improves insulin action in healthy subjectsand in non-insulin-dependent diabetic patients. Am J Clin Nutr 1993;57:650-656.
41. Paolisso G, Gambardella A, Giugilano D, et al. Chronic intake of pharmacological doses of vitamin E might be useful in the therapy of elderly patients with coronary heart disease. Am J Clin Nutr 1995;81 :848-852.
42. Paolisso G, Ravussin E. Intercellular magnesium and insulin resistance; results in Pima Indians and Caucasians. J Endocrinol Metab 1995;80:1382-1385.
43. Paolisso G, Sgambato S, Gambardell A, et al. Daily magnesium supplements improve glucose handling in elderly subjects. Am J Clin Nutr 1992;55:1161-1167.
44. Paolisso G, Sgambato S, Pizza G, et al. Improved insulin response and action by chronic mangnesium administration in aged NIDDM subjects. Diabetes Care 1989:12;265-269.
45. Persaud SJ, Al-Majed H, Raman A, Jones PM. Gymnema sylvestre stimulates insulin release in vitro by increased membrane permeability. J Endocrinol 1999; 163(2):207-12.
46. Pocoit F, Reimers JI, Anderson HU. Nicotimaminde - biological action and therapeutic potential in diabetes prevention. Diabetologia 1993;36:574-576.
47. Pozzilli P, Andreani D. The potential role of nicotinimide in the secondary prevention of IDDM. Diabetes Metabol Rev 1993;9:219-230.
48. Reddi A, DeAngelis B, Frank 0, et al. Biotin Supplementation improves glucose and insulin tolerances in genetically diabetic KK mice. Life Science 1998;42:1323-1330.
49. Riales R, Albrink MJ. Effect of chromium chloride supplementation on glucose toler-ance and serum lipids including high-density lipoprotein of adult men. Am J Clin Nutr 1981 ;34:2670-2678.
50. Roeback, Jr. JR, Hla KM, Chambless, et al. Effects of chromium supplementation on serum high density lipoprotein cholesterol levels in men taking beta-blockers. Ann Intern Med. 1991 :115:917-924.
51. Rudich A, Tirosh A, Potashinik R, Khamaisi M, Bashan N. Lipoic acid protects against oxidative stress induced impairment in insulin stimulation of protein kinase B and glucose transport in 3T3-L 1 adipocytes. Diabeologia 1999;42:949-957.
52. Salonen JT, Jyyssonen K, Tuomainen TP. Increased risk of non-insulin diabetes mellitus at low plasma vitamin E concentrations. A four year followup study in men. Br Med J 1995;311 :1124-1127.
53. Shang 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 Vitamin 1996;42:517-526.
54. Shang 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 Vitamin 1996;42:517-526.
55. Shanmugasundaram ERB, et al. Possible regeneration of the islet of Langerhans in streptozoticin-diabetic rats given Gynema sylvestre leaf extracts. J Ethnopharmacol 1990 30; 265-279.
56. Shanmugasundaram ERB, et al. Use of Gynema sylvestre leaf extract in the control of blood glucose in insulin-dependent diabetes mellitus. J Ethanopharmacol 1990; 30: 281-294.
57. Shanmugasundaram KR, et al. Enzyme changes and glucose utilization in diabetic rabbits: the effect of Gymnema sylvestre, R.Br. J Ethnopharmacol 1983; 7(2):205-34.
58. Shechter, Li Meyerovitch, et al. Insulin-like actions of vanadate are mediated in an insulin receptor independent manner via non-receptor protein tyrosine kinases and protein phosphotyrisine phosphates. Mol Cell Biochem. 1995; 153(1-2):39-47.
59. Singh RB, Niaz MA, Rastogi SS, et al. Current zinc intake and risk of diabetes and coronary artery diseasse and factors associated with insulin resistance in rural and urban populations of North India. J Am Col Nutr 1998;17:564-570.
60. Streeper RS, Henriksen EJ, Jacob S, et al. Differential effects of lipoic acid stereo-isomers on glucose metabolism in insulin resistant skeletal muscle. Am J Physiol 1997;273:E185-E191.
61. Striffler JS, Polansky MM, Anderson RA. Overproduction of insulin in the chromium-deficient rat. Metabolism 1999;48:1063-1068.
62. Striffler JS, Polansky MM, et al. Chromium improves insulin response to glucose in rats. Metabolism 1995;44:1314-1320.
63. Urberg M, Zemel MB. Evidence of synergism between chromium and nicotinic acid in the control of glucose tolerance in elderly humans. Metabolism 1987; 36:574-576.

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