

P3: Multi with Copper & Iron

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P3: Multi with Copper & Iron

PEAK PERFORMANCE
& PREVENTION

Clinical Applications

- Foundational Nutrition*
- Basic Formula for Wellness*
- Supports Antioxidant Activity*
- Supports Detoxification*
- Supports Health in Individuals with Inadequate Nutrient Intake*
- Supports Energy Production and Stress Response*

***P3: Multi with Copper & Iron** features a premium, multivitamin/mineral blend of high-quality vitamin and mineral forms selected for optimum utilization. The comprehensive nutrient profile is delivered in a vegetarian capsule and supports foundational wellness; provides antioxidant activity with vitamins C and E, selenium, and beta-carotene; and supports detoxification.**

All Peak Performance & Prevention Formulas Meet or Exceed cGMP Quality Standards

Discussion

Adequate nourishment is the foundation for overall health and wellness, and good nutrition typically translates into a stronger immune system and better health. The human body uses dietary proteins, fats, and carbohydrates, known as macronutrients, to provide the energy (calories) needed to fuel physiological functions. Vitamins and minerals, known as micronutrients, are needed in much smaller quantities. Unlike their macro counterparts, micronutrients don't give you energy, but they do participate in converting food to energy; building and repairing tissues and DNA; manufacturing neurotransmitters, hormones, and other modulators in the body; breaking down and detoxifying xenobiotics and medications; and maintaining growth, reproduction, and health.*^[1-3]

According to the *Dietary Guidelines for Americans 2020-2025* (DGA) and additional data from the USDA and other agencies and organizations, the American diet lacks micronutrients.^[4-6] Mass food production, storage techniques, poor food choices, and nutrient-depleting preparation methods may be contributing to this deficit. Furthermore, the percent daily values (%DV) for micronutrients are based on the minimum amount needed to meet the basic need of a healthy person of a specific age and gender group. The %DV is not always indicative of the amount needed for optimal functioning of all individuals, especially those who are chronically ill.*^[3,5,7]

When considering where American diets fall short in nutrients, the DGA shows that low intakes of potassium, dietary fiber, calcium, and vitamin D are a public health concern.^[4] Other nutrients that have notably low intakes or require increased intake subsequent to life stage include vitamins A, B6, B12, C, E, and folate; the minerals magnesium and iron; and choline.^[4,8,9] Data from the National Health and Nutrition Examination Surveys (NHANES) suggest a pervasive deficiency in A, C, D, E, and zinc—nutrients linked to immune health.^[6] Inadequate intake of most of these nutrients is attributable to an overall unhealthy eating pattern due to low intakes of nutrient-rich foods such as vegetables, fruits, whole grains, and dairy that contain these nutrients.^[4] In cases when food is not enough for an individual to get adequate micronutrients, multivitamin/mineral supplements are recognized as being of value to help fill dietary nutritional shortfalls.*^[2,6,7,10-12]

P3: Multi with Copper & Iron is designed to meet the foundational nutrition needs for a variety of protocols and life stages. This formula provides:

A Balanced Profile Vitamins and minerals work cooperatively when present in sufficient amounts. However, imbalances between micronutrients can disrupt this synergistic relationship, possibly leading to instances of competitive intestinal absorption or displacement at the metabolic/cellular level, which can produce relative excesses and insufficiencies. For this reason, P3: Multi with Copper & Iron features a balanced nutrient profile that includes calcium and magnesium, zinc and copper, vitamins C and E, bioactive folate, vitamin B12, B vitamin complex, beta-carotene, and trace elements.*

Bioavailable Nutrient Forms The micronutrients are provided in bioactive forms so that they can be adequately absorbed and utilized. P3: Multi with Copper & Iron contains a full complement of Albion® patented mineral chelates and complexes. Albion is a recognized world leader in mineral amino acid chelate nutrition and manufactures highly bioavailable nutritional mineral forms that are validated by third-party research and clinical studies. P3: Multi with Copper & Iron also contains natural vitamin E, clinically shown to be more bioavailable than synthetic dl-alpha-tocopherol, as well as mixed tocopherols to more closely approximate how much vitamin E an individual might gain when consuming healthful foods.^[13,14] The folate source in P3: Multi with Copper & Iron is methyltetrahydrofolate (5-MTHF)—the most bioactive form of folate^[15]—in the form of Quatrefolic®, which has greater stability, solubility, and bioavailability over calcium salt forms of 5-MTHF. Supplementing with bioactive 5-MTHF facilitates the bypassing of steps in folate metabolism. This may be especially beneficial in those with genetic variations in folate metabolism.^[16,17] Vitamins B2, B6, and B12 are provided in metabolically active forms.*

Support for Energy Production and Stress Response P3: Multi with Copper & Iron provides generous levels of B vitamins which serve as prime coenzymes in glycolysis and oxidative phosphorylation and as cofactors in amino acid and lipid metabolism.^[18-20] Sufficient levels of the B vitamins are critical for energy production and cell growth and division, and they have many other essential roles in the body, including support for nervous system function.^[21] The balanced presence of B vitamins is essential to their cooperative functioning and excellent for individuals with stressful lifestyles.*

Antioxidant Protection Vitamins E and C, selenium, zinc, beta-carotene, and trace elements provide broad-spectrum antioxidant activity.^[22,23] Their combined presence supports their ability to regenerate each other and maintain consistent levels of antioxidant activity both intra- and

***These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.**

Supplement Facts

Serving Size: 2 Capsules
Servings Per Container: 60

Amount Per Serving		%DV	Amount Per Serving		%DV
Vitamin A (75% as natural beta-carotene and 25% as retinyl palmitate)	1,120 mcg	124%	Iron (as ferrous bisglycinate chelate) ^{§2}	2.5 mg	14%
Vitamin C (as sodium ascorbate, potassium ascorbate, zinc ascorbate, and calcium ascorbate)	125 mg	139%	Iodine (as potassium iodide)	50 mcg	33%
Vitamin D3 (cholecalciferol)	2.5 mcg (100 IU)	13%	Magnesium (as di-magnesium malate) ^{§2}	50 mg	12%
Vitamin E (as d-alpha tocopheryl succinate)	67 mg	447%	Zinc (as zinc bisglycinate chelate) ^{§2}	6.5 mg	59%
Thiamin (as thiamine mononitrate)	10 mg	833%	Selenium (as selenium glycinate complex) ^{§2}	50 mcg	91%
Riboflavin (as riboflavin 5'-phosphate sodium)	10 mg	769%	Copper (as copper bisglycinate chelate) ^{§2}	0.5 mg	56%
Niacin (as niacinamide and niacin)	32 mg	200%	Manganese (as manganese bisglycinate chelate) ^{§2}	0.25 mg	11%
Vitamin B6 (as pyridoxal 5'-phosphate)	10 mg	588%	Chromium (as chromium nicotinate glycinate chelate) ^{§2}	250 mcg	714%
Folate (as (6S)-5-methyltetrahydrofolic acid, glucosamine salt) ^{§1}	340 mcg DFE	85%	Molybdenum (as molybdenum glycinate chelate) ^{§2}	25 mcg	56%
Vitamin B12 (as methylcobalamin)	250 mcg	10,417%	Potassium (as potassium glycinate complex ^{§2} and potassium ascorbate)	49.5 mg	1%
Biotin	500 mcg	1,667%	Inositol	18 mg	**
Pantothenic Acid (as d-calcium pantothenate)	100 mg	2,000%	PABA (para-aminobenzoic acid)	6 mg	**
Choline (as choline dihydrogen citrate)	18 mg	3%	Vanadium (as vanadium nicotinate glycinate chelate) ^{§2}	375 mcg	**
Calcium (as d-calcium malate ^{§2} , d-calcium pantothenate, and calcium ascorbate)	50 mg	4%			

Other Ingredients: Capsule (hypromellose and water), microcrystalline cellulose, ascorbyl palmitate, silica, medium-chain triglyceride oil, and mixed tocopherols.

 **Quatrefolic**® S1. Quatrefolic® is a registered trademark of Gnosis S.p.A. Produced under U.S. patent 7,947,662.

 S2. Albion®, DimaCal®, Ferrochel®, TRAACS®, and the Albion Gold Medallion® are registered trademarks of Albion Laboratories, Inc.

Directions

Take two capsules twice daily, or as directed by your healthcare professional.

Consult your healthcare professional prior to use. Individuals taking medication should discuss potential interactions with their healthcare professional. Do not use if tamper seal is damaged.

Formulated To Exclude

Wheat, gluten, yeast, soy, dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, and artificial preservatives.

References

1. Ames BN. *Arch Biochem Biophys.* 2004;423(1):227-234. doi:10.1016/j.abb.2003.11.002
2. Block G, Jensen CD, Norkus EP, et al. *Nutr J.* 2007;6:30. doi:10.1186/1475-2891-6-30
3. Fletcher RH, Fairfield KM. *JAMA.* 2002;287(23):3127-3129. doi:10.1001/jama.287.23.3127
4. U.S. Department of Agriculture and U.S. Department of Health and Human Services. *Dietary Guidelines for Americans, 2020-2025.* 9th ed. December 2020. https://www.dietaryguidelines.gov/sites/default/files/2020-12/Dietary_Guidelines_for_Americans_2020-2025.pdf
5. Blumberg JB, Bailey RL, Sesso HD, et al. *Nutrients.* 2018;10(2):248. doi:10.3390/nu10020248
6. Reider CA, Chung RY, Devarshi PP, et al. *Nutrients.* 2020;12(6):1735. doi:10.3390/nu12061735
7. Multivitamin/Mineral Supplements Fact Sheet. National Institutes of Health. Updated October 12, 2021. Accessed November 29, 2021. <https://ods.od.nih.gov/factsheets/MVMS-HealthProfessional/?print=1>
8. Bird JK, Murphy RA, Ciappio ED, et al. *Nutrients.* 2017;9(7):655. doi:10.3390/nu9070655
9. Multivitamin/Mineral (MVM) Inclusion in the Supplemental Nutrition Assistance Program (SNAP). Council for Responsible Nutrition; 2017. Accessed December 6, 2021. <https://www.crnusa.org/multivitamin-mineral-mvm-inclusion-supplemental-nutrition-assistance-program-snap>
10. Blumberg JB, Frei BB, Fulgoni VL, et al. *Nutrients.* 2017;9(8):849. doi:10.3390/nu9080849
11. Blumberg JB, Cena H, Barr SI, et al. *Clin Ther.* 2018;40(4):640-657. doi:10.1016/j.clinthera.2018.02.014
12. Marra MV, Bailey RL. Position of the Academy of Nutrition and Dietetics: micronutrient supplementation. *J Acad Nutr Diet.* 2018;118(11):2162-2173. doi:10.1016/j.jand.2018.07.022
13. Kiyose C, Muramatsu R, Kameyama Y, et al. *Am J Clin Nutr.* 1997;65(3):785-789. doi:10.1093/ajcn/65.3.785
14. Burton GW, Traber MG, Acuff RV, et al. *Am J Clin Nutr.* 1998;67(4):669-684. doi:10.1093/ajcn/67.4.669
15. Venn BJ, Green TJ, Moser R, et al. *Am J Clin Nutr.* 2003;77(3):658-662. doi:10.1093/ajcn/77.3.658
16. Prinz-Langenohl R, Brämswig S, Tobolski O, et al. *Br J Pharmacol.* 2009;158(8):2014-2021. doi:10.1111/j.1476-5381.2009.00492.x
17. Lamers Y, Prinz-Langenohl R, Brämswig S, et al. *Am J Clin Nutr.* 2006;84(1):156-161. doi:10.1093/ajcn/84.1.156
18. Calderón-Ospina CA, Nava-Mesa MO. *CNS Neurosci Ther.* 2020;26(1):5-13. doi:10.1111/cns.13207
19. Kennedy DO. *Nutrients.* 2016;8(2):68. doi:10.3390/nu8020068
20. Depeint F, Bruce WR, Shangari N, et al. *Chem Biol Interact.* 2006;163(1-2):94-112. doi:10.1016/j.cbi.2006.04.014
21. B Vitamins. National Library of Medicine. MedlinePlus. Last reviewed September 23, 2021. Accessed December 2, 2021. <https://medlineplus.gov/bvitamins.html>
22. Jayedi A, Rashidy-Pour A, Parohan M, et al. *Adv Nutr.* 2018;1;9(6):701-716. doi:10.1093/advances/nmy040
23. Doyle ME, Pariza MW. In: Kotsonis FN, Mackey MA, eds. *Nutritional Toxicology.* 2nd ed. Taylor & Francis; 2002:1-30. <https://doi.org/10.1201/9781420025088>
24. Liska DJ. *Altern Med Rev.* 1998;3(3):187-98.
25. Hodges RE, Minich DM. *J Nutr Metab.* 2015;2015:760689. doi:10.1155/2015/760689

Warning

Accidental overdose of iron-containing products is a leading cause of fatal poisoning in children under 6. Keep this product out of reach of children. In case of accidental overdose, call a doctor or poison control center immediately.

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Detoxification Support

Xenobiotics, including environmental pollutants and medications, must undergo biotransformation into molecules that can be easily excreted from the body. Detoxification of xenobiotics is a complex process that requires micronutrients, phytonutrients, energy, and adequate antioxidant support for safe and effective completion.^[23-25] There are significant levels of bioavailable riboflavin, niacin, folate, and B12 present in P3: Multi with Copper & Iron to support phase I detoxification. Beta-carotene, vitamin C, tocopherols, selenium, copper, zinc, and manganese are present to support tissues when reactive intermediates are formed between phase I and phase II detoxification.*

P3: Multi with Copper & Iron offers foundational multivitamin and mineral support designed to compensate for dietary nutritional shortfalls and nourish optimal wellness.*