

## Ultra Preventive® III

Comprehensive multivitamin/mineral with Copper & Iron for daily wellness<sup>‡</sup>

### DESCRIPTION

Ultra Preventive® III by Douglas Laboratories provides a comprehensive vitamin/mineral/trace element formula with bioavailable nutrient forms to support optimal health and wellness. This formula features Vitamin K<sub>2</sub> for bone and vascular health; three forms of vitamin B<sub>12</sub> for mitochondrial energy and methylation support; Metafolin® L-5-MTHF folate and choline for the homocysteine-methionine cycle; and antioxidants for immune and cellular health.<sup>‡</sup>

### INDICATIONS

- Support for optimal health<sup>‡</sup>
- Support for daily wellness<sup>‡</sup>

### FUNCTIONS AND MECHANISM OF ACTION

Ultra Preventive® III has been carefully developed to contain adequate amounts of vitamins, minerals, and other beneficial nutrients and enzymes. Each ingredient is selected in consideration of its absorbability, competitive relationship with other nutrients, and safety. The specific nutrients play vital roles and support cellular, heart, cognitive and immune health, among other functions. Vitamin C is a water-soluble antioxidant nutrient. It is essential for connective tissue and bone metabolism, capillary health, and immune function. Vitamin E is recognized as a fat-soluble antioxidant. It provides cell stabilization and supports cell membranes.<sup>‡</sup>

Calcium and magnesium are included in a 1:1 ratio in bioavailable amino acid chelate and citrate forms to support bone and tissue health. Vitamin D is responsible for the absorption of calcium into the blood, and vitamin K<sub>2</sub> supports deposition of blood calcium into bones and teeth. Thus, vitamin K<sub>2</sub> is important for the proper distribution and utilization of calcium throughout the body.<sup>‡</sup>

This formula contains methylated folate and vitamin B<sub>12</sub>, which are active forms of these nutrients. Hydroxycobalamin is a precursor form of vitamin B<sub>12</sub> converted in the body to both methylcobalamin and adenosylcobalamin. While methylcobalamin is found in the cytosol of cells and is predominate in blood and other fluids, adenosylcobalamin is the major form of vitamin B<sub>12</sub> stored in the mitochondria of cellular tissues. Folate is offered in this formula as Metafolin® 5-methyltetrahydrofolate (L-5-MTHF), the universally metabolized and biologically active form of folate.<sup>‡</sup>

Choline acts as a methyl donor for homocysteine and folate metabolism in the methylation cycle following conversion to betaine, and as a structural component of cellular membranes and synthesis of the neurotransmitter acetylcholine. Choline and inositol are lipotropic factors that support liver function and promote healthy mobilization of fats and bile. This formula contains copper, an essential trace mineral that supports a number of crucial physiological processes including antioxidant function, iron absorption, and protein metabolism. Iron plays a role in optimal muscle function by supporting hemoglobin and myoglobin function.<sup>‡</sup>

### FORMULA (#202663)

Serving Size 6 Tablets:

Vitamin A .....	7,500 mcg
(30% [2,250 mcg] as vitamin A acetate/	
70% [5,250 mcg] as beta-carotene)	
Vitamin C (as ascorbic acid) .....	1,000 mg
Vitamin D <sub>3</sub> (as cholecalciferol) .....	25 mcg (1,000 IU)
Vitamin E .....	134 mg
(as d-alpha tocopherol succinate)	
Thiamine (as thiamine HCl) .....	50 mg

Riboflavin .....	40 mg
Niacin/Niacinamide .....	190 mg
Vitamin B <sub>6</sub> .....	50 mg
(as pyridoxine HCl/ pyridoxal-5-phosphate complex)	
Folate (as Metafolin®, L-5-MTHF) .....	1,333 mcg DFE (800 mcg L-5-MTHF)
Vitamin B <sub>12</sub> (as methylcobalamin/ .....	180 mcg
Hydroxycobalamin/ adenosylcobalamin)	
Biotin .....	300 mcg
Pantothenic Acid .....	100 mg
(as d-calcium pantothenate)	
Choline .....	100 mg
(from choline bitartrate)	
Calcium (as calcium citrate/ .....	350 mg
amino acid chelate complex)	
Iron (as Ferronyl®, carbonyl iron) .....	20 mg
Iodine (as potassium iodide) .....	200 mcg
Magnesium (as magnesium citrate/ .....	350 mg
amino acid chelate complex)	
Zinc (as OptiZinc® monomethionine) .....	25 mg
Selenium .....	200 mcg
(as selenium krebs <sup>††</sup> )	
Copper .....	2 mg
(as copper chelate)	
Manganese .....	3 mg
(as manganese sulfate)	
Chromium .....	200 mcg
(as chromium polynicotinate)	
Molybdenum .....	100 mcg
(as molybdenum krebs <sup>††</sup> )	
Potassium .....	99 mg
(as potassium chloride)	
Betaine (as betaine HCl) .....	100 mg
Inositol .....	100 mg
PABA (para-aminobenzoic acid) .....	50 mg
Boron (as boron citrate) .....	1.5 mg
Trace Mineral Complex .....	100 mcg
(from seawater)	
Vanadium (as vanadium krebs <sup>††</sup> ) .....	50 mcg
Vitamin K <sub>2</sub> (as menaquinone-7) .....	45 mcg

Other ingredients: Microcrystalline cellulose, hydroxypropyl cellulose, croscarmellose sodium, coating (purified water, hypromellose, glycerin), ascorbyl palmitate and silica

<sup>††</sup>Krebs = Citrate, Fumarate, Malate, Glutarate, and Succinate Complex

Metafolin® is a registered trademark of Merck KGaA, Darmstadt, Germany.

OptiZinc® is a trademark of Lonza.

Ferronyl® is a registered trademark of Ashland Inc.

Gluten-Free, Non-GMO

## SUGGESTED USE

As a dietary supplement, adults take 6 tablets daily with a meal or as directed by a health professional.

## **WARNING**

Accidental overdose of iron-containing products is 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.

If you are pregnant, nursing, have any health condition or taking any medication, particularly blood thinners, consult your health professional before using this product. Discontinue immediately if a burning sensation occurs. Not recommended for people with ulcers.

## **STORAGE**

Store in a cool, dry place, away from direct light. Use only if safety seal is intact.

## **REFERENCES**

- Girodon F, Blache D, Monget AL, et al. *J Am Coll Nutr*. 1997 Aug;16(4):357-65.
- Hercberg S, Galan P, Preziosi P, et al. *Arch Intern Med*. 2004 Nov 22;164(21):2335-42.
- Wang MX, Jiao JH, Li ZY, et al. *Atherosclerosis*. 2013 Apr;227(2):380-5.
- Sato K, Niki E, Shimasaki H. *Arch Biochem Biophys*. 1990 Jun;279(2):402-5.
- Huskisson E, Maggini S, Ruf M. *J Int Med Res*. 2007 May-Jun;35(3):277-89.
- Depeint F, Bruce WR, Shangari N. *Chemico-Biological Interactions*. 2006. 123; 94–112.
- Tsugawa N, Shiraki M. *Nutrients*. 2020 Jun 27;12(7):1909
- Rodríguez-Olleros Rodríguez C, Díaz Curiel M. *J Osteoporos*. 2019 Dec 31;2019:2069176.
- Brunaud L, Alberto JM, Ayav A et al. *Clin Chem Lab Med*. 2003 Aug;41(8):1012-9.
- Miller AL. *Altern Med Rev*. 2003 Feb;8(1):7-19.
- Costa KA, Gaffney CE, Fischer LM, Zeisel SH. *Am J Clin Nutr*. 2005 Feb; 81(2): 440–444.
- Lee JK, Jung SH, Lee SE, et al. *Korean J Physiol Pharmacol*. 2018 Jan; 22(1): 35–42.
- Panche AN, Diwan AD, Chandra SR. *J Nutri Sci*. 2016;5:e47.
- Johnston CS, Barkyoumb GM, Schumacher SS. *Nutrients*. 2014 Jul 9;6(7):2572-83.
- Sasazuki S, Sasaki S, Tsubono Y, et al. *Eur J Clin Nutr*. 2006 Jan;60(1):9-17.
- Kurutas EB. *Nutr J*. 2016; 15: 71.
- den Heijer M, Brouwer IA, Bos GM, et al. *Arterioscler Thromb Vasc Biol*. 1998 Mar;18(3):356-61.
- Robinson K, Arheart K, Refsum H, et al. *Circulation*. 1998; 97: 437-443.
- Johnston CS, Barkyoumb GM, Schumacher SS. *Nutrients*. 2014 Jul 9;6(7):2572-83.
- Tanaka T, Scheet P, Biusti B, et al. *Amer J Hum Genetics*. Apr 2009. 84: 477–482.
- Antoniades C, Shirodaria C, Warrick N, et al. *Circulation*. 2006 Sep 12;114(11):1193-201.
- Cagnacci A, Cannella M, Volpe A. *Eur J Clin Nutr*. 2009 Oct;63(10):1266-8.
- Stanhewicz AE, Alexander LM, Kenney WL. *Clin Sci (Lond)*. 2015 Jul;129(2):159-67.
- Lövblad K, Ramelli G, Remonda L, et al. *Pediatr Radiol*. 1997 Feb;27(2):155-8.
- Douaud G, Refsum H, de Jager CA, et al. *Proc Natl Acad Sci U S A*. 2013 Jun 4;110(23):9523-8.
- Suzuki T. *Nihon Yakurigaku Zasshi*. 1984 Jul;84(1):99-108.
- Merete C, Falcon LM, Tucker KL. *J Am Coll Nutr*. 2008 Jun; 27(3): 421–427.
- van Asselt DZ, Pasman JW, van Lier HJ, et al. *J Gerontol A Biol Sci Med Sci*. 2001 Dec;56(12):M775-9.
- Prasad AS. *Curr Opin Clin Nutr Metab Care*. 2009 Nov;12(6):646-52.
- Shankar AH, Prasad AS. *Am J Clin Nutr*. 1998 Aug;68(2 Suppl):447S-463S.
- Hosseini-nezhad A, Spira A, Holick MF. *PLoS One*. 2013;8(3):e58725.
- Amrein K, Zajic P, Schnedl C, et al. *Crit Care*. 2014 Mar 24;18(2):R47.
- Wintergerst ES, Maggini S, Hornig DH. *Ann Nutr Metab*. 2006;50(2):85-94.
- Padayatty SJ, Katz A, Wang Y, et al. *J Am Coll Nutr*. 2003 Feb;22(1):18-35.
- Frech T, Clegg D. *Curr Rheumatol Rep [serial online]*. April 2007;9(1):25-30.
- Carr AC, Bozonet SM, Pullar JM, et al. *Am J Clin Nutr*. 2013 Apr;97(4):800-7.
- Szarka A, Lőrincz T. *Protoplasma*. 2014 May;251(3):489-97.
- Aghajanian P, Hall S, Wongworawat MD, Mohan S. *J Bone Miner Res*. 2015 Nov; 30(11): 1945–1955.
- Malmir H, Shab-Bidar S, Djafarian K. *Br J Nutr*. 2018 Apr;119(8):847-858.

Henriksson P, Diczfalusy U, Freyschuss A. *Microcirculation*. 2012;19(1):86-93.  
May JM, Harrison FE. *Antioxid Redox Signal*. 2013 Dec 10; 19(17): 2068–2083.  
Uchio R, Hirose Y, Murosaki S, et al. *Br J Nutr*. 2015 Feb 28;113(4):603-9.  
Ferrón-Celma I, Mansilla A, Hassan L, et al. *J Surg Res*. 2009 May 15;153(2):224-30.  
Abdollahzad H, Eghtesadi S, Nourmohammadi I, et al. *Int J Vitam Nutr Res*. 2009 Sep;79(5-6):281-7.  
Bauer JD, Isenring E, Waterhouse M. *J Hum Nutr Diet*. 2013 Oct;26(5):452-8.  
Keen MA, Hassan I. *Indian Dermatol Online J*. 2016;7(4):311-315.  
Rendón-Ramírez AL, Maldonado-Vega M, Quintanar-Escorza MA, et al. *Environ Toxicol Pharmacol*. 2014 Jan;37(1):45-54.  
Sureda A, Tauler P, Aguiló A, et al. *Ann Nutr Metab*. 2008;52(3):233-40.  
Wang X, Quinn PJ. *Prog Lipid Res*. 1999 Jul;38(4):309-36.  
Evstigneeva RP, Volkov IM, Chudinova VV. *Membr Cell Biol*. 1998;12(2):151-72.  
Castiglioni S, Cazzaniga A, Albisetti W, Maier JAM. *Nutrients*. 2013 Aug; 5(8): 3022–3033.  
Volpe SL. Magnesium. In: Erdman JW, Macdonald IA, Zeisel SH, eds. Ames, Iowa; John Wiley & Sons, 2012:459-74.  
Maresz K. *Integr Med (Encinitas)*. 2015 Feb; 14(1): 34–39.  
Thakkar K, Billa G. *Eur J Clin Nutr*. 2015 Jan;69(1):1-2.  
Quadros EV. *Br J Haematol*. 2010 Jan;148(2):195-204.  
Seremak-Mrozikiewicz A. *Ginekol Pol*. 2013 Jul;84(7):641-6.  
Lamers Y, Prinz-Langenohl R, Brämswig S, Pietrzik K. *Am J Clin Nutr*. 2006 Jul;84(1):156-61.  
Prinz-Langenohl R, Brämswig S, Tobolski O, et al. *Br J Pharmacol*. 2009 Dec; 158(8): 2014–2021.  
Xie F, Cheng Z, Li S, et al. *J Clin Pharmacol*. 2014 Jun;54(6):688-95.  
di Salvo ML, Contestabile R, Safo MK. *Biochim Biophys Acta*. 2011 Nov;1814(11):1597-608.  
Zakhari S. *Alcohol Res*. 2013; 35(1): 6–16.  
Mahmoud AM, Mohamed MA. *Nutrients*. 2019 Mar; 11(3): 608.  
Hollenbeck C.B. *Cent Nerv Syst Agents Med Chem*. 2012;12:100–113.  
Pizzorno JE, Murray MT, Joiner-Bey Herb. Elsevier; 2016.  
Kenney JL, Carlberg KA. *Int J Sports Med*. 1995 Feb;16(2):114-6.  
Herchenhan A, Uhlenbrock F, Eliasson P, et al. *J Biol Chem*. 2015 Jun 26;290(26):16440-50.  
DiSilvestro RA, Joseph EL, Zhang W, et al. *Metabolism*. 2012 Sep;61(9):1242-6.  
Ogra Y. *Nihon Eiseigaku Zasshi*. 2014;69(2):136-45.  
Reeves PG, DeMars LC. *J Nutr*. 2004 Aug;134(8):1953-7.  
Reeves PG, Demars LC, Johnson WT, et al. *J Nutr*. 2005 Jan;135(1):92-8.  
Bauerly KA, Kelleher SL, Lönnnerdal B. *Am J Physiol Gastrointest Liver Physiol*. 2005 May;288(5):G1007-14.  
Ergaz Z, Guillemin C, Neeman-Azulay M, et al. *Toxicol Appl Pharmacol*. 2014 May 1;276(3):220-30.  
Cunnane SC, Horrobin DF, Manku MS. *Ann Nutr Metab*. 1985;29(2):103-10.  
Kiss JE, Brambilla D, Glynn SA, et al. *JAMA*. 2015 Feb 10;313(6):575-83.  
Kumagai E, Nakazono T, Niidome Y, et al. *Rinsho Byori*. 1995 Nov;43(11):1168-72.  
Chan LN, Mike LA. *JPEN J Parenter Enteral Nutr*. 2014 Aug;38(6):656-72.  
Guang III SF, Georgieff MK, Lambert DJ, et al. *Amer J Physio*. 1997. 273(6); 2124-2131.  
Yamada E, Takeuchi M, Kurata M, et al. *Asia Pac J Clin Nutr*. 2015;24(3):444-51.  
Beard JL. *J Nutr*. 2001. 131(2); 568S-580S.

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<sup>‡</sup>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.

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