# NutriDyn<sup>®</sup> Vitamin C 1000

Support for Healthy Immune Function\*

NutriDyn's Vitamin C 1000 supplement is a powerful supporter of healthy immune system function and plays a multiplicity of vital roles throughout the human body. Vitamin C must be consumed as part of the diet or through supplementation, as the body cannot produce it endogenously. Recent data suggests that as many as 20% of adults in the U.S. are vitamin C deficient, and as few as 10% consume adequate vitamin C on a daily basis.<sup>41</sup>

# How Vitamin C 1000 Works

Vitamin C has a vast range of biological roles in humans, working as a major antioxidant (electron donor). As such, vitamin C is crucial for supporting oxidative stress, energy production, and immune function.<sup>•2</sup> It is also necessary for synthesizing key neurotransmitters (especially norepinephrine and dopamine) and supporting healthy liver function.<sup>•3</sup>

Vitamin C is an essential nutrient required for the overall health and functionality of the immune system.<sup>•</sup> Deficiencies result in susceptibility to infections by weakening the T-cell-mediated immune response and adaptive antibody response.<sup>4</sup> Research suggests that supplementation with vitamin C supports immune system function and redox integrity of cells.<sup>•5</sup>

One study reported that college students who consumed supplemental vitamin C were 85% more likely to have healthy immune function as compared to students who did not take a vitamin C supplement.<sup>•6</sup>

Research is continually uncovering the many other actions of vitamin C throughout the body. Findings thus far suggest that vitamin C is an integral micronutrient for neuronal differentiation and maturation, as studies have shown that supplemental vitamin C increases brain-derived neurotrophic factor (BDNF)—a peptide that supports healthy cell function.<sup>•7</sup>

Vitamin C also appears to promote healthy dopamine and norepinephrine levels by acting as a co-substrate.<sup>47,8,9</sup> Further evidence suggests that as little as 250 mg of vitamin C per day can support healthy cortisol levels, thereby supporting stress-related symptoms.<sup>47</sup>

Lastly, consuming adequate vitamin C helps promote collagen synthesis needed for healthy connective tissues, healthy joints, and healthy skin, hair and nails.<sup>+10</sup>

# Vitamin C 1000 Supplementation

Research demonstrates the importance of vitamin C as a key antioxidant in humans, with many roles throughout virtually every bodily system.\*

Benefits of supplementing with Vitamin C 1000 may include:

- Promotes healthy immune function<sup>+</sup>
- Supports healthy oxidative stress<sup>+</sup>
- Supports cognitive function<sup>+</sup>
- Supports healthy neuronal processes
- Supports healthy cortisol balance<sup>+</sup>
- Promotes healthy collagen synthesis<sup>+</sup>



## Form: 100 Capsules

### Serving Size: 1 Capsule

Ingredients	Amount	% <b>DV</b>
Vitamin C (as ascorbic acid)	1,000 mg	1,111%

#### **Other Ingredients:**

Hypromellose, vegetable magnesium stearate, silica.

#### **Directions:**

Take one capsule one to two times daily or as directed by your healthcare practitioner.

**Caution:** If you are pregnant, nursing, or taking medication, consult your healthcare practitioner before use. Keep out of reach of children.



...



#### For more information, visit: www.nutridyn.com

#### **References:**

- 1. Blumberg JB et al. J Fam Pract. 2016;65(9):S1.
- 2. Figueroa-Méndez R et al. Front Physiol. 2015;6.
- 3. Wei J et al. PloS One. 2016;11(1):e0147985.
- 4. Wintergerst ES et al. Ann Nutr Metab. 2007;51:301-323.
- 5. Wintergerst ES et al. Ann Nutr Metab. 2006;50:85-94.
- 6. Gorton HC et al. J Manip Physiol Ther. 1999;22(8):530-533.
- 7. Padayatty SJ et al. J Am Coll Nutr. 2003;22(1):18-35.
- 8. Penninx BW et al. Am J Psych. 2000;157(5):715-721.
- 9. Paleologos M et al. Am J Epidemiol. 1998;148(1):45-50.
- **10.** Padayatty SJ et al. *Can Med Assoc J*. 2001;164(3):353-355.