

ImmuWell™

Contains ingredients shown to support healthy immune responses as well as energy, mood, and memory processes*

Patient Profile†

- ☐ Seeking overall immune health support*
- ☐ Seeking ingredients to target balanced respiratory health*
- ☐ Bring daytime fatigue and low mood into balance*
- ☐ Support for working memory and memory consolidation*

Key Ingredients

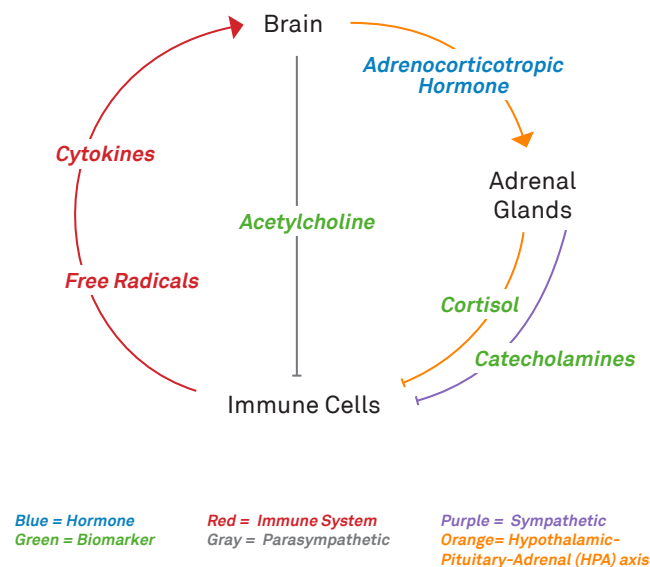
Vitamin D	<ul style="list-style-type: none"> Promotes antimicrobial peptide creation, immune cell migration to sites of immune activation, and elimination of foreign material that trigger an immune response in a healthy system^{1*}
Black elderberry powder (<i>Sambucus nigra</i> L.) (whole fruit)	<ul style="list-style-type: none"> Contains a variety of bioactive constituents that provide antioxidant support and inhibit replication of substances that can cause microbial imbalance in a healthy system^{2*} Shown to boost immune defenses and support healthy cytokine expression^{3*}
L-tyrosine	<ul style="list-style-type: none"> Readily absorbed across the intestinal epithelium and blood-brain barrier⁴ Precursor to catecholamines (dopamine, norepinephrine, epinephrine), which play an important role in energy, cognition, and healthy immune responses^{5,6*}
Beta 1, 3/1, 6 D Glucan (from <i>Saccharomyces cerevisiae</i>)	<ul style="list-style-type: none"> Beta-1,3 and beta-1,6 glucan are potent activators of a healthy immune system^{7*} Contains patterns recognized by the immune system, priming the body for immune responses, imbalances, and challenges^{8*}
Ginkgo biloba L. extract (leaf) (24% total flavone glycosides, 6% total terpene lactones) [‡]	<ul style="list-style-type: none"> Consists of flavonoids as flavone glycosides (i.e. quercetin), terpene trilactones (ginkgolides A, B, C), and ginkgolic acid (GA) Involved in free radical scavenging by modulating amounts of reactive oxygen species tissue and membrane lipid peroxidation^{9*} Ginkgolides are shown to have natural antagonistic actions toward platelet activating factor (PAF), an inflammatory mediator balancing the airways and bronchial reactivity^{10*}



The Science

- The sympathetic and parasympathetic nervous systems work together with the immune system to **regulate the immune response**⁷
- Oxidative stress** is directly linked to immune activation and can damage proteins, lipids, and DNA¹¹
- Long term immune activation** can lead to imbalances in these systems and can contribute to symptoms such as **fatigue, low mood, and sleep difficulties**^{5,12-14}

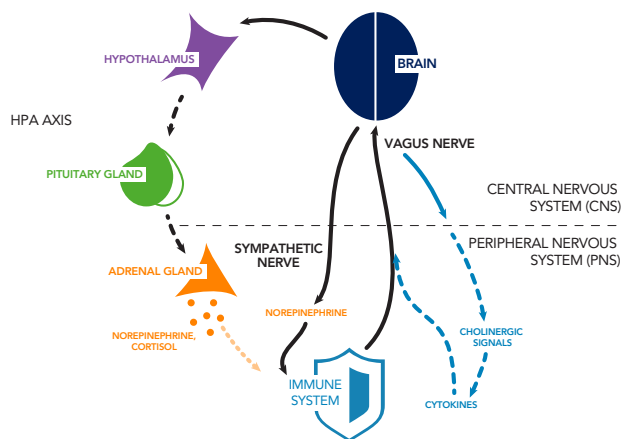
NeuroImmune Response



*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.

MORE SCIENCE BEHIND IMMUWELL

Figure 1. NeuroImmune Response (Detailed)



Balancing an Immune Response

Norepineprine (NE), or noradrenaline, impacts both fatigue and mood, and is impacted by stress as well as immune system balance^{5,6*}

1. When the immune system is active, vagal and sensory nerve receptors are engaged by immune messengers like IL-1 β ⁵
2. Pro-inflammatory activity in the periphery generates afferent signals to the CNS, resulting in sympathetic nerve activation⁵
3. Healthy sympathetic nerves release neurotransmitters (NT) to restore local net anti-inflammatory balance while supporting non-specific immune processes⁵
 - Norepineprine is the NT shown to influence immune cells, including recruitment of leukocytes and increased blood flow, lymph flow, and antigen processing⁵

ImmuWell provides L-tyrosine and vitamin C to support bodily norepineprine production*

Figure 2. Impacting Immune Reactions

	Vitamin C	Vitamin D	Beta glucan	Zinc	Black elderberry	Ginkgo biloba
Support balance in the face of immune challenges*	✓	✓	✓		✓	
Oxidative stress related immune imbalances*	✓			✓	✓	✓
Optimal inflammatory cascade*	✓	✓				✓

Ingredients blended to make an impact

Along with its Key Ingredients, ImmuWell also provides:

- **Vitamin C:** Protects healthy immune cells from oxidative damage, aids in optimal cell migration to inflammation sites, and improves elimination of foreign material^{15*}
- **Zinc:** Supports glutathione synthesis, modulates detoxification pathways, and acts as a cofactor for antioxidant enzymes^{16,17*}

The immune system is activated by many triggers. Support multiple aspects of the immune response with ImmuWell*

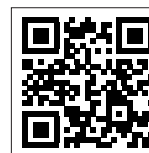
Data shows daily intake of:

- Beta glucan (250 mg), vitamin C (1,000 mg), and zinc (13.3 mg) can support optimal respiratory health^{18-20*}
- Ginkgo biloba (120 mg) can support both working memory and memory consolidation^{21*}

ImmuWell delivers these ingredients at or above the researched amounts at its suggested use*



NeuroScience™



Add in acetylcholine support?

Learn more about Avipaxin at
www.neuroscienceinc.com/products/avipaxin

Item Number	Available Sizes	Serving Size
20066	90 Capsules	3 Capsules

Third party tested to deliver consistent quality trusted by healthcare providers for 25 years

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8. De Marco Castro E, et al. Mol Nutr Food Res. 2021;65(1):e1901071.
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