

Kavinace® OS

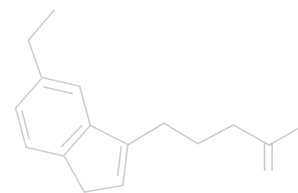
Target the cellular consequences of sleeplessness with a formulation proven to significantly improve both sleep onset and efficiency after the first dose^{1,2*}

Patient Profile

- ☐ Requires quick relief from sleeplessness
- ☐ Needs help falling asleep
- ☐ Unhealthy lifestyle habits
- ☐ Known or suspected immune activity

Key Ingredients

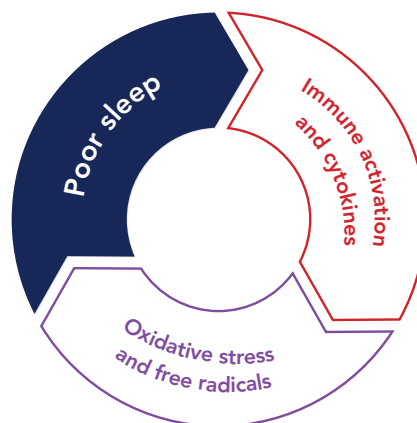
L-theanine	- Amino acid that acts as a glutamate receptor antagonist^{3*} - In a double-blind, placebo-controlled study, L-theanine was shown to significantly reduce stress^{4*}
Astaxanthin	- Carotenoid that can have inhibitory effects on macrophage activity, IL-1 and IL-6 expression, and Nf-kB phosphorylation, impacting chronic and acute immune responses^{17,18*} - Shown to significantly improve sleep onset when taken with zinc^{6*}
Magnesium (as magnesium bisglycinate chelate)	Cofactor for multiple mechanisms in the body including the production of serotonin and acting as a GABA agonist^{7*}
Zinc (as zinc bisglycinate chelate)	- Essential micronutrient cofactor for the antioxidant enzyme superoxide dismutase (SOD)^{8*} - Zinc deficiency is directly associated with increased biomarkers of oxidative stress and inflammatory cytokines⁹
Melatonin	Antioxidant and hormone important for the regulation of the sleep-wake cycle^{10*}



The Science

- The nervous system works with the immune system to regulate the sleep-wake cycle and the immune response^{11,12}
- During daytime activity, the immune system generates free radicals and depletes antioxidants¹³
- During bedtime hours, accumulated free radicals can stimulate the immune system with the adaptive immune system at its most active¹²
- Poor sleep has been shown to increase oxidative stress markers, perpetuating the Immune-Sleep Cycle¹³⁻¹⁵

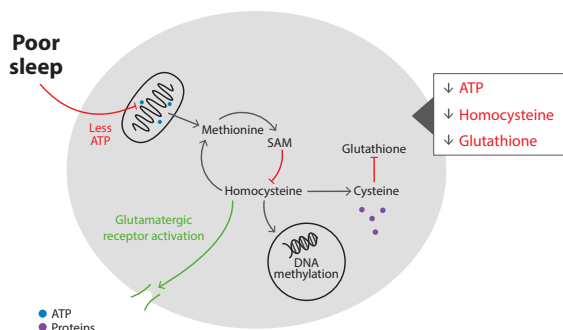
The Immune-Sleep Cycle



*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 KAVINACE® OS

Figure 1. Cellular Impact of Sleep Deprivation



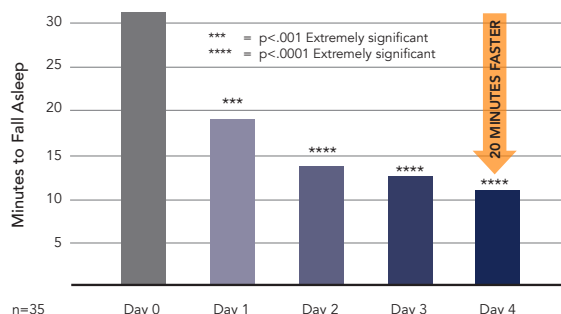
One night of poor sleep changes cellular metabolic function (Figure 1.)¹

Metabolic changes worsen the Immune-Sleep Cycle, perpetuating more sleepless nights¹

- Decreased antioxidant capacity increases susceptibility to negative effects of free radicals and oxidative stress¹
- Oxidative stress modulates immune regulators like Nf-kB¹⁶
- Wake promoting substances (hormones and neurotransmitters) respond to immune activation and further disrupt sleep^{11, 15}

The uniquely formulated blend of Kavince OS comprehensively intervenes at every portion of the Immune-Sleep Cycle*

Figure 2. Kavince OS Decreases Sleep Latency



Researched ingredient blend, proven results*

Study participants were prescreened for poor sleep (PSQI), received one serving of Kavince OS at bedtime for seven days, and submitted a daily sleep diary

- **Fall asleep quickly.** Extremely significant reductions in sleep latency were reported after the first dose of Kavince OS, with ongoing improvement through day four²
- **Sleep better.** Significant improvement in sleep efficiency, or total sleep time relative to time in bed, was reported after one dose of Kavince OS^{2*}

Kavince OS provides quick relief from sleeplessness at the symptom and cellular level*

NeuroScience supplements undergo rigorous, product specific third-party testing to guarantee label claims of each ingredient and the absence of heavy metals, pesticides, residual solvents, and microbes

Capsules

Suggested Use: Take 2 capsules at bedtime or as directed by your healthcare provider. Do not exceed suggested use.

Supplement Facts		
Serving Size: 2 Capsules		
Servings Per Container: 30		
Amount Per Serving		% Daily Value
Magnesium	25 mg	6%
(as magnesium bisglycinate chelate)		
Zinc (as zinc bisglycinate chelate)	15 mg	100%
Selenium (as selenomethionine)	200 mcg	286%
Melatonin	5 mg	†
Proprietary Blend	214 mg	†
L-theanine, Resveratrol (as trans-resveratrol), and Astaxanthin.		
† Daily Value not established.		

Other Ingredients: Vegetable capsule (Hydroxypropylmethylcellulose, water), Organic rice concentrate, and Microcrystalline cellulose. L20053KAVOS60.01

Emulsion

Suggested Use: Take 1 Tablespoon (15 mL) at bedtime or as directed by your healthcare provider. Do not exceed suggested use.

Supplement Facts		
Serving Size: 1 Tablespoon (15 mL)		
Servings Per Container: 15		
Amount Per Serving		% Daily Value*
Calories 84		
Total Fat	8 g	12%
Saturated fat	0 g	0%
Polyunsaturated fat	4 g	†
Monounsaturated fat	4 g	†
Cholesterol	0 mg	0%
Total Carbohydrate	3 g	1%
Total Sugars	0 g	†
Protein	1.5 g	†
Vitamin E (as D-alpha tocopherol)	9 IU	30%
Magnesium	25 mg	6%
(as magnesium bisglycinate chelate)		
Zinc (as zinc bisglycinate chelate)	15 mg	100%
Selenium (as selenomethionine)	200 mcg	286%
Melatonin	5 mg	†
Proprietary Blend	214 mg	†
L-theanine, Resveratrol (as trans-resveratrol), and Astaxanthin.		
* Percent Daily Values are based on a 2,000 calorie diet.		
† Daily Value not established.		

Ingredients: Sunflower oil*, Almond butter* (100% almonds), Purified water, Glycerin (vegetable source), Natural Flavors, Organic cocoa powder, and Potassium bicarbonate. L20054KAVOSE8.01

+ Emulsion Exclusive Benefits

During digestion, nutrients are packaged into micelles to be efficiently absorbed, but **malabsorption issues** disrupt this natural process¹⁷⁻¹⁹

- ✓ NeuroCelle™ technology pre-packages ingredients into micelles for essential digestion and absorption
- ✓ Based in non-GMO sunflower oil and non-GMO almond butter
- ✓ Flavored with organic, fair trade cocoa and zero added sugars



Item Number	Available Sizes	Serving Size
20053	60 capsule	2 Capsules
20054	8 fl oz	1 Tablespoon (15mL)

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8. Nedd S, et al. J Mol Biol. 2014;426(24):4112-4124.
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18. Kishimoto Y, et al. Eur J Nutr (2010) 49: 119

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