

Juvenon Pro Cognitive

DESCRIPTION

Juvenon Pro Cognitive, manufactured by Douglas Laboratories, contains a unique combination of ingredients to help support overall cognitive and mitochondrial function. In addition to other important ingredients, Juvenon Pro Cognitive contains the patented combination of acetyl-L-carnitine, lipoic acid and biotin that has been the focus of research by an award-winning team of scientists at the University of California, Berkley. This patented, scientifically researched combination** supports healthy gene expression and mitochondrial function in the brain. †

Juvenon Pro Cognitive also contains lutein, alpha-GPC, and a phytonutrient fruit blend. While lutein has traditionally been associated with eye health, emerging research is demonstrating that lutein may play an important role in maintaining proper brain health. Alpha-GPC converts to acetylcholine, an important neurotransmitter that plays a role in cognition. A powerful blend of fruits is added to this formula for powerful antioxidant capacity to help fight free radical stress and support normal brain function. †

FUNCTIONS

Research has shown that an important factor in aging is the decay of the mitochondria, the organelles within the cell that convert amino acids, fatty acids and sugars into energy. Research performed by scientists and others has demonstrated that as we age, the efficiency of the mitochondria diminishes, as does their quantity per cell. The effect is a body operating at one-half to one-fourth the energy it had at youth. The brain is perhaps the most important organ affected by aging, since it consumes more energy than any other organ of the body. An energy deficit in the brain and central nervous system affects the activities of all organs throughout the body as well as mental acuity and mood. The combination** of acetyl-L-carnitine, alpha lipoic acid and biotin has been clinically studied to support the mitochondrial function. † The Juvenon® composition also activates the transport of nutrients into the mitochondria, where they are transformed into a specific chemical form of energy (ATP). This captured energy is used to run the cellular machinery for such activities as brain function and neurotransmission.

Acetyl-L-carnitine contributes its acetyl group to the production of acetylcholine, the primary neurotransmitter for memory and thought. The enzyme that makes acetylcholine from acetyl groups and choline is choline acetyl transferase. The activity of this important enzyme has a tendency to decline with age, causing low acetylcholine levels which in turn are thought to contribute to the impairment of brain function that is associated with aging. Research has also found that acetyl-L-carnitine is active in optimizing the functioning of cerebral blood flow, as well as of nerve cell membranes. †

Biotin is important for maintaining optimal levels of metabolites utilized for energy production in the mitochondria. The molecular structure of biotin is similar to that of alpha lipoic acid, one of the principal ingredients in Juvenon Pro Cognitive. As a consequence of this structural similarity, an excess of alpha lipoic acid can compete with or displace biotin from its cognate enzyme, according to experimental evidence from cell and animal studies. For this reason, biotin has been added to offset a potential imbalance.

Alpha-GPC, also called alpha-glycerophosphocholine, is thought to support memory and cognitive function because it increases plasma levels of choline, and therefore also increases production of acetylcholine and phosphatidylcholine. Alpha-GPC is a precursor to membrane phospholipids. Therefore, alpha-GPC may help neuronal functioning by improving neuronal membrane fluidity †. Human studies indicate that glycerophosphocholine may play important roles in maintaining neurological health. †

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Lutein is a common carotenoid found in spinach and green leafy vegetables that transports across the blood-brain barrier and accumulates in the macula and neural tissues. Data from the Nurses' Health Study showed that women who consumed a reported large amount of green leafy vegetables experienced less cognitive decline than those who ate fewer amounts of vegetables. Another clinical trial with 12 mg of lutein supplementation resulted in improved cognitive test results in elderly women. Berries are high in antioxidants and it is well documented that blueberries and fruit flavanoids play a significant role in memory support and a healthy aging brain.†

INDICATIONS

Juvenon Pro Cognitive may be a useful dietary supplement for individuals who desire a patented, scientifically researched combination of nutrients plus antioxidants to support healthy aging and cognition.

FORMULA (#201308-90X)

Serving size 3 vegetarian capsules

Biotin	300 mcg
Acetyl L-Carnitine HCl**	1,000 mg
Alpha Lipoic Acid**	400 mg
Alpha-GPC	100 mg
(L-Alpha-glycerylphosphorylcholine)	
VitaBerry® Fruit Blend.....	100 mg
Grape (<i>Vitis vinifera</i> , fruit), Grape Seed Extract (<i>Vitis vinifera</i> , seed), Wild Blueberry (<i>Vaccinium angustifolium</i> , berry), Wild Blueberry Extract (<i>Vaccinium angustifolium</i> , whole fruit), Raspberry (<i>Rubus idaeus</i> , berry), Raspberry Seed (<i>Rubus idaeus</i> , seed) Concentrate, Cranberry (<i>Vaccinium acrocarpon</i> , berry), Prune (<i>Prunus domestica</i> , fruit), Tart Cherry (<i>Prunus cerasus</i> , fruit), Wild Bilberry (<i>Vaccinium myrtillus L.</i> , whole fruit), Wild Bilberry Extract (<i>Vaccinium myrtillus L.</i> , whole fruit), Strawberry (<i>Fragaria virginia</i> , whole fruit).	
Lutein.....	12 mg

Other ingredients: Hydroxypropyl methylcellulose (vegetarian capsule), cellulose, calcium carbonate, vegetable stearate, and silica.

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SUGGESTED USE

Adults take 3 capsules daily with a meal, or as directed by your health care professional.

SIDE EFFECTS

If pregnant or lactating, consult your physician before taking this product. Alpha lipoic acid and acetyl-L-carnitine have been associated with gastrointestinal upset or skin rash in sensitive individuals.

STORAGE

Store in a cool, dry place, away from direct light. Keep out of reach of children.

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For more information on Juvenon Pro Cognitive, visit douglaslabs.com

† 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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