MemorAll™
Brain Support*

Clinical Applications

» Helps Support Normal, Healthy Cognitive Function*

» May Support the Health of Brain Tissue*

MemorAll™ is a unique combination of nutrients and botanicals that supports cognitive function and a healthy memory. It features select B vitamins, including Quatrefolic®†, a patented form of 5-MTHF; the herbs Gingko biloba and Bacopa monniera; nutrients that provide antioxidant activity; and brain-specific nutrients such as vinpocetine, acetyl-L-carnitine, and sunflower-derived phosphatidylserine. This comprehensive formula addresses the multiple pathways involved in neurological health by supporting oxidant and cytokine balance, methylation, mitochondrial function, and endocrine balance.*

Discussion

Vitamins B6 (as pyridoxal 5'-phosphate), B12 (as methylcobalamin), and folate (as 5-MTHF) are essential homocysteine remethylation cofactors; as such, they support the maintenance of healthy homocysteine levels. Normal blood levels of homocysteine are associated with healthy cognition in the elderly and healthy cerebrovascular function.[1,3] The brain may be protected by improving methylation by providing the nutritional cofactors needed for proper functioning of the methionine cycle.[2]

5-MTHF (5-methyltetrahydrofolate) may better support folate nutrition in those with digestive issues and those with genetic variations in folate acid metabolism. The form of 5-MTHF in MemorAll is Quatrefolic, which is proven to have greater stability, solubility, and bioavailability over calcium salt forms of 5-MTHF.*

N-Acetyl-Cysteine is capable of crossing the blood-brain barrier and is known to combat oxidative stress, and reduced oxidative stress may support healthier nerve tissue.[3] L-carnitine is a vital cofactor for mitochondrial oxidation of fatty acids providing the brain with an energy substrate. Acetyl-L-carnitine, an ester of L-carnitine, possesses properties that may be effective in supporting healthy cognition with age.[4,5] The phospholipid phosphatidylserine (PS) plays an important functional role in membrane-related processes in the brain and regulates the release of acetylcholine, dopamine, and noradrenaline. PS appears to support neuronal health and healthy brain function, possibly through its effect on cytokine production and their influence on microglia.[6]

Ginkgo biloba leaf extract contains two main bioactive constituents—ginkgoflavonglycosides (24%) and terpene lactones (6%)—and is used in the formula because of its reported stress-alleviating and memory-supportive effects as well as its ability to support the health and integrity of neurons. The mechanisms of action may be mediated through its antioxidant, antihypoxic, and microcirculatory actions.[7] The Ayurvedic herb Bacopa monniera has reported cognition-facilitating, cytokine-modulating, and anti-stress effects. These effects are thought to be mediated through its remarkable free-radical-scavenging capacity and its protective effect on DNA cleavage.[8]

Vinpocetine is derived from vincamine, an alkaloid extracted from the periwinkle plant (Vinca minor). It has been used extensively in Eastern Europe, and more recently in the United States, to support cerebrovascular health and healthy mental function. Vinpocetine’s roles in supporting brain function are multi-modal and include its influence on cerebral circulation, its antioxidant activity in the brain, and its role in affecting ion channels and cytokine production.[9-11] Together, these varied actions support overall brain tissue health and function. The efficacy and safety of vinpocetine have been tested and validated by in vitro, animal, and human studies. Many human studies demonstrate positive results in neurologic functioning—primarily related to capillary blood flow and cellular metabolism.[9-12-13]

Huperzine A (HupA), like vinpocetine, affects ion channels. Such activity has been found to support healthy learning and memory. HupA may have a positive effect on levels of acetylcholine through its action on acetylcholinesterase (AChE). Acetylcholine is one of the chemicals that our nerves use to communicate in the brain, muscles, and other areas. HupA has been found to support healthy cognition in a broad range of animal models, and phase IV clinical trials in China demonstrated that HupA was valuable in promoting healthy recall and cognition in elderly subjects.[14]

*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.
MemorAll™ Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Capsule</th>
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<tbody>
<tr>
<td><strong>Amount Per Serving</strong></td>
</tr>
<tr>
<td>Vitamin B6 (as pyridoxal 5′-phosphate)</td>
</tr>
<tr>
<td>Folate (as 5-(6S)-5-methylenetetrahydrofolic acid, glucosamine salt)*</td>
</tr>
<tr>
<td>Vitamin B12 (as methylcobalamin)</td>
</tr>
<tr>
<td>Acetyl-L-Carnitine (as acetyl-L-carnitine HCl)</td>
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<tr>
<td>N-Acetyl-L-Cysteine</td>
</tr>
<tr>
<td>Ginkgo Extract (Ginkgo biloba) leaf (24% ginkgoflavonglycosides and 6% terpene lactones)</td>
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<tr>
<td>Bacopa Extract (Bacopa monniera) leaf (20% bacosides)</td>
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<tr>
<td>Phosphatidylserine (Sharp•PS®)</td>
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<tr>
<td>Vinpocetine</td>
</tr>
<tr>
<td>trans-Resveratrol (as Polygonum cuspidatum root extract)</td>
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<tr>
<td>Huperzine A (from Huperzia serrata) (aerial parts)</td>
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</tbody>
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** Daily Value not established.

Other Ingredients: HPMC (capsule), stearic acid, calcium silicate, tricalcium phosphate, silica, magnesium stearate, and microcrystalline cellulose.

† Sharp•PS® is a registered trademark of Enzymotec Ltd.

DIRECTIONS: Take one capsule twice daily, or as directed by your healthcare practitioner.

DOES NOT CONTAIN: Wheat, gluten, corn protein, yeast, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, artificial colors, artificial sweeteners, or preservatives.

CAUTIONS: Consult your healthcare practitioner before use, especially if you have low blood pressure, are taking blood-thinning agents, or are within two weeks before or after undergoing surgery. Do not take if you are pregnant or lactating.

STORAGE: Keep closed in a cool, dry place out of reach of children.

References


Additional references available upon request.