R-Lipoate CBG™

Alpha lipoic acid (ALA) is a powerful biological antioxidant, exhibiting the capability to quench free radicals. In the body it functions as both a coenzyme, and a necessary component for normal mitochondrial function. ALA has activity in both fat and water-soluble tissues. Taken orally, lipoic acid is readily absorbed into both the cellular and tissue systems, where it is rapidly reduced to its antioxidant form, dihydrolipoate.

R-Lipoic Acid (R-LA) is naturally occurring in both plants and animals, and is considered the biologically superior form of lipoic acid. It is the only form that functions as a cofactor for mitochondrial enzymes, and has been demonstrated to be its more effective than the racemic (R+S) form for its impact on inflammatory processes. Additionally, R-LA has demonstrated advantageous effects in supporting both the cardiovascular system, and glucose regulation. In terms of cardiovascular support, as a consequence of both its antioxidant function, and its metal chelating ability, the actions of R-LA have been associated with the inhibition of endothelial activation, signifying its potential benefit in supporting vascular integrity. It has also been demonstrated to inhibit liver lipogenic gene expression, lowering hepatic triglyceride (TG) secretion, and stimulating clearance of TG-rich lipoproteins.

Its activity in supporting healthy glucose regulation has been demonstrated in numerous studies. In one study R-LA was demonstrated to inhibit glucose production from pyruvate, resulting in an increase in pyruvate oxidation, along with a concomitant decrease in gluconeogenesis and free fatty acid oxidation. In a separate study its ability to stimulate glucose oxidation, while having no effect on glycolysis, lactate oxidation or palmitate oxidation was demonstrated. As a result of these actions it is proposed to offer beneficial effects on glucose metabolism.

Green Tea – Green tea supplies important phytochemicals, including EGCG, a powerful antioxidant. It has been demonstrated to improve cognitive performance and mental alertness. Added to its cognitive benefits, epidemiological evidence suggests that green tea and its components are supportive of cardiovascular health.

Vitamin C – In humans vitamin C secretion occurs as part of the stress response via hormone regulation, specifically in response to stimulation via the hormone adrenocorticotrophic (ACTH). Subsequently, high levels of stress increase the need for vitamin C. Stress, fever and viral infections, as well as habitual actions, such as smoking and alcohol use, cause a rapid decline in the blood level of vitamin C. In catecholamine synthesis, vitamin C is required as a co-factor in the conversion of dopamine to norepinephrine. Low levels of vitamin C have been associated with a number of unwanted health conditions.

Biotin – Biotin functions in the manufacturing and utilization of amino acids, carbohydrates, and fats. Deficiency has been associated with hair loss, dry scaly skin, cracking in the corners of the mouth (cheilitis), swollen, painful tongue (glossitis), dry eyes, loss of appetite, fatigue, insomnia, and depression. Since the gut bacteria produce biotin, antibiotic use, specifically long-term, may result in a lower production of biotin. Additionally, it has been suggested that although asymptomatic, a marginal deficiency in biotin is a common occurrence in normal human pregnancy.
References


Supplement Facts

Serving Size: 1 Capsule

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<thead>
<tr>
<th>Nutrient</th>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
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<tbody>
<tr>
<td>Vitamin C (as ascorbic acid)</td>
<td>60 mg</td>
<td>100%</td>
</tr>
<tr>
<td>Biotin</td>
<td>300 mcg</td>
<td>100%</td>
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<tr>
<td>R-Alpha Lipoic Acid (sodium salt)</td>
<td>100 mg *</td>
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<tr>
<td>Green Tea Extract (50% EGCG) (Camellia sinensis) (leaf)</td>
<td>50 mg *</td>
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*Daily Value not established

Other ingredients: Vegetarian capsule shell (cellulose), and magnesium stearate (vegetable source).

This product is gluten and dairy free.

RECOMMENDATION: One (1) capsule each day as a dietary supplement or as otherwise directed by a healthcare professional.

KEEP OUT OF REACH OF CHILDREN
Store in a cool, dry area.
Sealed with an imprinted safety seal for your protection.

Product # 5190 Rev. 1/15