CORTIVIVE™
ADRENAL RESPONSE FORMULA

An important part of the neuroendocrine system, the adrenal glands are triangle-shaped glands located above the kidneys that are responsible for releasing hormones in response to stress. The adrenal glands produce a number of hormones including corticosteroids, (such as cortisol) and catecholamines, (such as epinephrine, adrenaline and norepinephrine.)

Stress can challenge the body’s coping mechanisms and result in fatigue (sometimes referred to as “adrenal fatigue” or “adrenal burnout”). Supporting adrenal gland health with targeted supplementation can help the body respond more adaptively during periods of stress.*

Stress Hormone Synthesis
CortiVive is designed to support adrenal function for healthy cortisol production.* The formula provides extracts of licorice, eleuthero, and forskolin-standardized coleus. It also includes vitamin C and B vitamins, including active forms of B2 and B6, as these essential vitamins can be depleted by stress, and as a result, they are critical to healthy adrenal gland function.*

CortiVive:
• Is a unique, vegetarian formulation.
• Offers flexible dosing to meeting individual patient needs.
• Combats stress-related fatigue and promotes energy recovery.*
• Includes ingredients to support healthy adrenal function.*

* These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.
**CORTIVIVE™**

**Background**

Cortisol, widely described as the “stress hormone,” is produced by the adrenal cortex in response to physical or psychological stress. The adrenals are small triangular-shaped organs that sit atop the kidneys. These small but vital glands serve as an extension of the sympathetic nervous system, which mobilizes the body’s fight or flight response to stress. 1 During periods of stress, cortisol influences blood pressure and blood sugar, as well as digestive function and the immune response. This allows the body to deal with acute stressors and then restore homeostasis.

**Description**

CortiVive is designed to support adrenal function for healthy cortisol production. 1 This unique, vegetarian formula combines effective amounts of adrenal-supportive botanicals including licorice, eleuthero, and forskolin-standardized coleus extracts with essential vitamins that can be depleted by stress. 2

**How It Works**

The body is adapted to quickly recover from stress. When the stress response lasts longer than a few minutes, it can challenge the body’s coping mechanisms. As a result, frequent stress may lead to fatigue (sometimes called “adrenal burnout”). CortiVive has been formulated to replenish the adrenals for healthy cortisol production and to support a normal healthy stress response and recovery. 3

The following chart summarizes the benefits of each ingredient in CortiVive:

### Beneficial Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Benefit</th>
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<tbody>
<tr>
<td>Coleus (Coles forskohlii) root extract</td>
<td>Several in vitro studies have shown that forskolin-standardized coleus extracts support pituitary ACTH production and steroidsogenesis gene transcription in human adrenal cells. 4,5 Although there are no human clinical trials demonstrating this effect, in-vitro experiments suggest that forskolin promotes cortisol production in human adrenocortical cells. 4,5</td>
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<tr>
<td>Eleuthero (Eleutherococcus senticosus) root extract</td>
<td>Eleuthero is an herbal extract known to elicit adaptogenic benefits, reducing fatigue and helping the body cope during periods of stress. 6 Although it has not been demonstrated in human clinical studies, animal research suggests that eleuthero may support healthy cortisol production. 6,7</td>
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<tr>
<td>Licorice (Glycyrrhiza glabra) root and rhizome extract</td>
<td>Licorice extracts have been shown to influence cortisol production in both animals and humans by inhibiting 11beta-hydroxysteroid dehydrogenase, the enzyme responsible for converting cortisol to cortisone. 8,9 In one study, supplementing with licorice extract increased salivary cortisol levels in healthy women. 10 Although human clinical trials have not been done to date, in-vitro studies have also found that glycyrrhizic acid enhances the synthesis of cortisol in human cells. 11</td>
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<tr>
<td>Vitamin B6 (Pantothenic acid)</td>
<td>Vitamin B6 (pantothenic acid) is involved in numerous biological reactions, including the production of energy and the synthesis of steroid hormones, including cortisol. 11 Vitamin B6 is required for normal function of the adrenal cortex. 12 Animal studies suggest that pantothenic acid and its derivatives support adrenal cortex function as well as adrenal response to ACTH stimulation. 12,13</td>
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<tr>
<td>Vitamin B1 (Thiamine)</td>
<td>Vitamin B1 (thiamine) is a water-soluble, sulfur-containing member of the B vitamins. The coenzymatic form of thiamine plays a role in energy production. 13,14</td>
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<tr>
<td>Vitamin B2 (Riboflavin)</td>
<td>Riboflavin, or vitamin B2, is a readily absorbable micronutrient required for a wide variety of cellular functions. 14 It is necessary for energy production as well as normal cell function and growth. 14 Animal research shows that a riboflavin deficiency leads to an initial increase, followed by a decrease, in adrenal cortex activity. 14,15</td>
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<tr>
<td>Vitamin B6 (Pyridoxine)</td>
<td>Vitamin B6 is a cofactor for more than 50 different enzymes. In recent years, vitamin B6 has become a focus of research describing the compound’s critical function in cellular metabolism and stress response. 15 It also plays a key role in the action of steroid hormones. 16</td>
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<tr>
<td>Vitamin C</td>
<td>The adrenal glands accumulate over 100 times the level of vitamin C than that found in blood plasma. 17 As a cofactor in both catecholamine biosynthesis and adrenal steroidsogenesis, animal studies confirm that vitamin C is crucial for both the adrenal cortex as well as the adrenal medulla. 18</td>
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</tbody>
</table>

### Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size 2 capsules</th>
<th>Servings per container 60</th>
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</thead>
<tbody>
<tr>
<td><strong>Amount per 2 capsules</strong></td>
<td><strong>%DV</strong></td>
</tr>
<tr>
<td>Vitamin C (as ascorbic acid)</td>
<td>60 mg</td>
</tr>
<tr>
<td>Thiamin (as thiamin HCI) (vitamin B1)</td>
<td>3 mg</td>
</tr>
<tr>
<td>Riboflavin (as riboflavin-5'-phosphate and riboflavin)</td>
<td>3.4 mg</td>
</tr>
<tr>
<td>Vitamin B6 (as pyridoxal-5'-phosphate and pyridoxine HCI)</td>
<td>6 mg</td>
</tr>
<tr>
<td>Pantethenic Acid (as calcium D-pantothenate)</td>
<td>150 mg</td>
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**Proprietary Blend:**
- **350 mg**
  - Eleuthero (Eleutherococcus senticosus) Root Extract standardized to contain 0.8% eleutherosides, Licorice (Glycyrrhiza glabra) Root and Rhizome Extract and Coleus forskohlii Root Extract standardized to contain 20% forskolin (10 mg)  **Daily Value not established.**

**Other ingredients:** vegetable capsule (modified cellulose), cellulose, ascorbyl palmitate, and silicon dioxide.

**Recommendations:** Take 2 capsules one to two times daily, or as recommended by your healthcare professional.

If pregnant, nursing, or taking prescription drugs, consult your healthcare professional prior to use.

**Contains No:** sugar, salt, yeast, wheat, gluten, soy, dairy products, artificial coloring, artificial flavoring, preservatives, or ingredients of animal origin.

### Integrative Therapeutics

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### References


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