

Adrenal Revive



Clinical Applications

- Promotes Energy Production and Stamina*
- Supports the Body's Adaptogenic Response*
- Supports the Body's Response to Stress*
- Promotes Adrenal Physiological Functions*

*Adrenal Revive features a comprehensive blend of nutrients and botanical extracts targeted to supporting the body's adaptogenic response to promote optimal energy production, stamina, and the management of everyday stressors. Adrenal glandular tissue, sourced from Argentinian bovine to safeguard purity, rounds out the ingredient profile.**

All Big Sky Natural Health's Formulas Meet or Exceed cGMP Quality Standards

Distributed By: Big Sky Natural Health
87 Lone Peak Drive
Big Sky, MT 59716
406-993-6949

Discussion

Cortisol is one of the main stress-mediating glucocorticoid hormones produced by the adrenal gland. It acts to maintain blood glucose levels necessary for normal brain and physical functions. Typically, cortisol levels spike in the morning and gradually decrease throughout the day. When the body is under stress, cortisol production increases. With prolonged increased levels of cortisol, the body produces more glucose leading to an increase in risk for depressed immune function, increased production of cytokines, insulin resistance, weight gain, and other potentially chronic conditions. Eventually, the adrenal production of cortisol weakens resulting in "adrenal fatigue," which causes feelings of tiredness, mild depression, and general malaise. Adrenal Revive is formulated to support Individuals who present with cortisol levels that are low throughout the day and are sometimes referred to as being in the "burnout" or "flat-line" stage of adrenal fatigue.*

Vitamin C

The release of adrenocorticotrophic hormone (ACTH) from the pituitary gland in tandem with the body's physiological response to stress will deplete the relatively large amount of vitamin C typically stored in the adrenal cortex.^[1,2] This vitamin is essential for the synthesis of epinephrine, the hormone secreted by the adrenal medulla in response to stress. Epinephrine, in turn, plays a role in the synthesis of aldosterone, the hormone that regulates blood pressure, volume, and pH.*

Vitamin B6, Pantothenic Acid

Vitamin B6, acting as a coenzyme, has a role in the conversion of muscle glycogen to glucose, which is needed for a proper response to stressors, the synthesis of serotonin, and the support of the immune function.^[3] Physiologically, vitamin B6 influences the adrenal glucocorticoid receptor, stimulates the secretion of adrenal catecholamines, and aids in sodium and potassium balance.*^[2]

Pantothenic acid is essential to the adrenal glands for the production of glucocorticoids. It forms pantothenic acid in the body, which then converts to coenzyme-A—the most active metabolic enzyme in the human body needed to produce cellular energy.^[4] Pantothenic acid plays a critical role in the utilization of fats and carbohydrates in energy production and in the manufacture of adrenal hormones and red blood cells.*^[5]

Asian Ginseng (Panax)

As an important herbal remedy in traditional Chinese medicine, *Panax ginseng* has been used for thousands of years, primarily for energy production. The main active agents have been identified as ginsenosides, and they are the focus of much published research.^[6] Experimental models show that ginseng and ginsenosides have beneficial effects in supporting the adrenal glands; protecting the gastric mucosa; and supporting healthy body weight, blood hormones, and the gene expression of catecholamine-synthesizing enzymes.^[6-10] Ginsenosides also have immune-supporting and cytokine-modulating activities.*^[7,11]

Eleuthero

In the 1950s, Russian researchers investigated the properties of eleuthero and discovered that it had "adaptogenic" activity. An adaptogen refers to a substance that supports the body's ability to adapt and promote healthy physiological functioning, most notably in relation to stress. This balancing effect has been evaluated in numerous human clinical trials that demonstrate the ability of eleuthero to increase stamina, mental alertness, and the capability of the participants to handle stress.*^[12,19]

Rhodiola

This adaptogenic herb has been used traditionally in Eastern Europe and Asia for centuries to increase stamina, maintain a healthy mood, support the nervous and immune systems, and maintain healthy male sexual function.^[13,14] According to Panossian et al, experimental studies performed on isolated organs, tissues, cells, and enzymes demonstrated that rhodiola preparations exhibit adaptogenic effects that support nerve, brain, and heart health and instill calm, enhance longevity, and stimulate the nervous system.^[14] Rhodiola may also have a positive effect on brain neurotransmitters, such as dopamine and serotonin, and may influence endogenous opioid levels.^[13] According to a review of the literature on rhodiola, supplementation supports healthy work performance, quality of sleep, appetite, and energy levels subsequent to intense physical or intellectual strain.

Continued on next page

*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.

Adrenal Revive

Supplement Facts

Serving Size: 1 Capsule
Servings Per Container: 60

	Amount Per Serving	%Daily Value
Vitamin C (ascorbic acid)	125 mg	139%
Vitamin B6 (as pyridoxal 5'-phosphate)	15 mg	882%
Pantothenic Acid (as d-calcium pantothenate)	150 mg	3,000%
Adrenal Gland (from bovine)(Argentina)	125 mg	**
Asian Ginseng Extract (<i>Panax ginseng</i>)(root)(4% ginsenosides)	75 mg	**
Eleuthero Extract (<i>Eleutherococcus senticosus</i>)(root)(0.8% eleutheroides)	50 mg	**
Licorice (<i>Glycyrrhiza glabra</i>)(roots)	50 mg	**
Schisandra Extract (<i>Schisandra chinensis</i>)(berries)(2% schisandrins)	50 mg	**
Rhodiola Extract (<i>Rhodiola rosea</i>)(root)(3% rosavins and 1% salidroside)	50 mg	**

** Daily Value not established.

Other Ingredients: Capsule (hypromellose and water), ascorbyl palmitate, medium-chain triglyceride oil, and silica.

Salidroside and rosavin have been identified as primary actives. The rhodiola extract in Adrenaliv is standardized to provide no less than 1% salidroside and 3% rosavin.*

Schisandra

Schisandra has been widely studied for its effect on helping the body adapt to psychological and physical stressors. It has been suggested that schisandra affects the basal levels of nitric oxide and cortisol, which promote endurance and accuracy of movement, mental performance, and working capacity.*^[15,16]

Schisandra is commonly used in combination with other adaptogens. In a double-blind placebo-controlled trial with rhodiola and eleuthero, improvement in attention as well as speed and accuracy on cognitive tasks was noted.*^[17]

Adrenal Gland (from Argentina bovine), Licorice Root

Adrenal gland derived from pure Argentinian bovine is a complementary ingredient traditionally used to replenish adrenal function.^[18] Licorice contains triterpenoid saponins that influence cortisol balance, and it is a staple herb for supporting adrenal insufficiency.*^[19]

Directions

Take one capsule twice daily, or as directed by your healthcare professional.

Consult your healthcare professional prior to use. Individuals taking medication should discuss potential interactions with their healthcare professional. Do not use if tamper seal is damaged.

References

- Murray RK, Granner DK, Mayes PA, et al. *Harper's Biochemistry*. 25th ed. Stamford, CT: Appleton & Lange; 2000.
- Head KA, Kelly GS. Nutrients and botanicals for treatment of stress: adrenal fatigue, neurotransmitter imbalance, anxiety, and restless sleep. *Altern Med Review*. 2009 June;14(2): 114-140. [PMID: 19594222]
- Vitamin B5 (Pantothenic acid). University of Maryland Medical Center. <http://www.umm.edu/health/medical/altmed/supplement/vitamin-b5-pantothenic-acid>. Updated July 16, 2013. Accessed September 12, 2017.
- National Institutes of Health. Office of Dietary Supplements. Dietary Supplement Fact Sheet: Vitamin B6. <https://ods.od.nih.gov/factsheets/VitaminB6-HealthProfessional/> Updated February 11, 2016. Accessed September 11, 2017.
- Kelly CJ. Invigorating the context and content of nutrition in medical education. *Aca Med*. 2011 Nov;86(11):1340. [PMID: 22030639]
- Kiefer D, Pantuso T. Panax ginseng. *Am Fam Physician*. 2003 Oct 15;68(8):1539-42. [PMID: 14596440]
- Jia L, Zhao Y, Liang XJ. Current evaluation of the millennium phytomedicine ginseng (II): Collected chemical entities, modern pharmacology, and clinical applications emanated from traditional Chinese medicine. *Curr Med Chem*. 2009;16(22):2924-42. [PMID: 19689273]
- Kim Y, Choi EH, Doo M, et al. Anti-stress effects of ginseng via down-regulation of tyrosine hydroxylase (TH) and dopamine β-hydroxylase (DBH) gene expression in immobilization-stressed rats and PC12 cells. *Nutr Res Pract*. 2010 Aug;4(4):270-75. [PMID: 20827341]
- Tachikawa E, Kudo K, Hasegawa H, et al. In vitro inhibition of adrenal catecholamine secretion by steroidal metabolites of ginseng saponins. *Biochem Pharmacol*. 2003 Dec 1;66(11):2213-21. [PMID: 14609746]
- Rai D, Bhatia G, Sen T, et al. Anti-stress effects of Gingko biloba and Panax ginseng: a comparative study. *J Pharmacol Sci*. 2003 Dec;93(4):458-64. [PMID: 14737017]
- Lee DC, Lau AS. Effects of Panax ginseng on tumor necrosis factor-α-mediated inflammation: a mini-review. *Molecules*. 2011 Mar 30;16(4):2802-16. [PMID: 21455094]
- Panossian A, Wikman G. Effects of adaptogens on the central nervous system and the molecular mechanisms associated with their stress-protective activity. *Pharmaceuticals*. 2010 Jan 19;3(1):188-224. [PMID: 27713248]
- Chan SW. Panax ginseng Rhodiola rosea and Schisandra chinensis. *Int J Food Sci Nutr*. 2012 Mar;63 Suppl 1:75-81. [PMID: 22039930]
- Panossian A, Wikman G, Sarris J. Rosenroot (Rhodiola rosea): traditional use, chemical composition, pharmacology and clinical efficacy. *Phytomedicine*. 2010 Jun;17(7):481-93. [PMID: 20378318]
- Panossian A, Wikman G. Pharmacology of Schisandra chinensis Bail.: an overview of Russian research and uses in medicine. *J Ethnopharmacol*. 2008 July;118(2):183-212. [PMID: 18515024]
- Upton R, ed. *Schisandra Berry (Schisandra chinensis): Analytical, Quality Control and Therapeutic Monograph*. Santa Cruz, CA: American Herbal Pharmacopoeia; 1999:1-25. <http://cms.herbalgram.org/herbclip/pdfs/011007-185.pdf>.
- Aslanyan G, Amroyan E, Gabrielyan E, et al. Double-blind, placebo-controlled, randomised study of single dose effects of ADAPT-232 on cognitive functions. *Phytomedicine*. 2010 June;17(7):494-499. [PMID: 20374974]
- Ronzio R. A rationale for the use of glandular products. Stichting Sci Nutrition. http://tuesdayminute.net/A-Rationale_for_the_use_of_glandular_products.pdf. Revised October 2006. Accessed September 11, 2017.
- Panossian AG. Adaptogens: Tonic herbs for fatigue and stress. *Altern Complement Ther*. 2004 July;9(6):327-331. https://www.researchgate.net/publication/244889830_Adaptogens_Tonic_Herbs_for_Fatigue_and_Stress. Accessed September 19, 2017.

Formulated To Exclude

Wheat, gluten, yeast, soy, dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, and artificial preservatives.

***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.**

Distributed By: Big Sky Natural Health
87 Lone Peak Drive
Big Sky, MT 59716
406-993-6949

DRS-284
REV. 03/03/22