

ADAPTEN-ALL



CLINICAL APPLICATIONS

- Improves Stress Resilience
- Supports Healthy Energy Levels
- Strengthens the Body's Stress Response
- Improves Mental and Physical Performance
- Helps Maintain a Balanced Cortisol to DHEA ratio

ENDOCRINE HEALTH

Adapten-All contains a blend of key micronutrients and adaptogenic botanicals specifically formulated to strengthen the body's stress response and support healthy energy levels. Adapten-All provides targeted amounts of vitamin C, pantothenic acid and other B vitamins that are critical to adrenal gland function. Adapten-All also provides a unique blend of "stress adapting botanicals" which help increase the body's resistance to fatigue and maintain balanced cortisol and DHEA levels.

Overview

Stress is defined as any disturbance –extreme cold or heat, psychological stress, sleep deprivation, work overload, physical trauma, as well as toxic exposure- that can trigger the stress response. The body's stress response system is comprised of the hypothalamic-pituitary-adrenal (HPA) axis. Prolonged stress triggers the HPA axis and consists of three stages: stage 1: alarm; stage 2: resistance; and stage 3: exhaustion.

The initial, short-lived phase (the alarm phase) is the body's normal fight-or-flight response to danger which is characterized by elevated cortisol levels. The next phase, the resistance phase, allows the body to continue buffering extended stress exposure, long after the initial fight-or-flight response has dissipated. Hormones released by the adrenals, such as cortisol and DHEA, help support the "resistance" reaction. However, extended periods of stress not only burden the system, creating an imbalance in cortisol and DHEA production, but can result in mental and physical fatigue, nervous tension, irritability and poor memory- all of which are characteristic of stage 3. Adapten-All provides a unique blend of botanicals and micronutrients that support the adrenal glands, as well as

the body's ability to respond to and counter-act the negative effects of stress.

Rhodiola rosea Root Extract†

Rhodiola rosea has been categorized as an adaptogenic botanical due to its ability to increase resistance to a variety of stressors.^[1] *Rhodiola* has been studied extensively and is widely used in Eastern Europe and Asia to help support the nervous system, mood regulation, mental clarity, work performance and the sleep cycle.^[1] Within the central nervous system, *Rhodiola* has demonstrated an ability to preserve levels of neurotransmitters such as serotonin, dopamine and norepinephrine. In a randomized, double-blind placebo-controlled study examining the effects of *Rhodiola* on fatigue and stress, 161 patients aged 19 to 21 years received 185 mg of *Rhodiola* twice daily and saw a significant reduction in fatigue.^[2] An additional study using *Rhodiola* extract in students showed significant improvements in mental performance, greater mood stability and improved sleep patterns.^[3]

Eleuthero Root Extract†

Eleutherococcus senticosus has been identified as a strong adaptogenic botanical and is widely used in China to improve general health, support memory and physical endurance.^[4] In addition to its ability to improve stress resilience and maintain energy, Eleuthero has been shown to support the immune system.^[5] In a double-blind study, the adaptogenic effects of Eleuthero were demonstrated to help maintain a sense of calmness, reflected by a reduction of heart rate, during stress exposure.^[6] Eleuthero has also been shown to improve performance in runners. In a study on performance athletes, Eleuthero extract (2 or 4 mL) given 30 minutes prior to a race

† 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.

significantly reduced race time (48.7 minutes) compared to the control group (52.6 minutes).^[7]

Schisandra Berry Extract†

Schisandra is an adaptogenic botanical that has been used for centuries in China and Russia to help support mental clarity, stress response and emotional wellness. In a double-blind, placebo-controlled study, athletes were given *Schisandra chinensis* and *Bryonia alba* extracts or placebo. Those receiving the therapy had increased concentrations of nitric oxide, a molecule which causes the blood vessels to expand resulting in increased circulation, increased blood flow and nutrients throughout the body.^[8] The researchers concluded that Schisandra provides supportive factors for physical performance in athletes.^[8] Schisandra berry has been shown to support learning and memory and may have some protective factors that support brain health.^[9]

Licorice Root Extract†

The primary components in licorice root that support adrenal health include glycyrrhetic acid and glycyrrhizin. Licorice has also been shown to block 11-β-hydroxysteroid dehydrogenase, the enzyme responsible for the conversion of cortisol to the inactive cortisone. When taken in small doses, licorice root extract can be used to maintain normal cortisol levels, an important factor for individuals that need to support adrenal hormone production and maintain healthy inflammatory pathways.^[10]

Ashwagandha Root Extract†

Ashwagandha's strong adaptogenic properties provide an array of benefits for individuals that have compromised health due to extreme stress exposure. Ashwagandha's benefits include improving stress resilience, supporting immune response, regulating the sleep cycle, supporting healthy thyroid function and protecting against exhaustion of the nervous system.^[11,12] Ashwagandha has also been shown to be beneficial in supporting proper mood regulation and restoring a sense of calmness under stress.^[12]

Micronutrient Blend†

Adapten-All contains a combination of micronutrients that are crucial for buffering the effects of stress and supporting adrenal gland function. Pantothenic acid (vitamin B5) helps support adrenal gland function.^[13] Pantothenic acid also breaks down in the body into coenzyme A, which plays a large part in energy (ATP) production. Vitamin B6 is a required cofactor for the synthesis of several neurotransmitters that help buffer stress including serotonin, GABA and dopamine. Vitamin B12 (methylcobalamin) helps to reset the circadian rhythm of cortisol excretion throughout the day.^[14] Vitamin C is a vital nutrient for adrenal gland function- vitamin C levels are among the highest in the adrenal glands compared to other

organs and urinary excretion of vitamin C is elevated during times of stress. Supplementation with vitamin C supports the health of the adrenal glands and immune function

Directions

2 capsules one or two times per day or as recommended by your health care professional.

Does Not Contain

Wheat, gluten, corn, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, artificial colors, artificial sweeteners or preservatives.

Caution

Do not consume this product if you are pregnant or nursing.

Supplement Facts ^{v2}		
Serving Size 2 Capsules		
Servings Per Container 30 & 60		
2 capsules contain	Amount Per Serving	% Daily Value
Vitamin A (as Natural Beta Carotene)	500 IU	10%
Vitamin C (as Sodium Ascorbate USP)	200 mg	333%
Vitamin E (as d-Alpha Tocopherol Succinate USP)	20 IU	67%
Niacin USP	20 mg	100%
Vitamin B6 (as Pyridoxine Hydrochloride USP, Pyridoxal 5'-Phosphate)	30 mg	1,500%
Vitamin B12 (as Methylcobalamin)	200 mcg	3,333%
Pantothenic Acid (as d-Calcium Pantothenate USP)	350 mg	3,500%
Eleuthero Root Extract (Standardized to contain 0.8% Eleutherosides)	150 mg	*
<i>Rhodiola rosea</i> Root Extract (Standardized to contain 3% Rosavins)	150 mg	*
Schisandra Berry Extract	150 mg	*
Ashwagandha Root Extract (Standardized to contain 1.5% Withanolides)	75 mg	*
Licorice Root Extract (Standardized to contain 12% Glycyrrhizin Complex)	75 mg	*

* Daily Value not established

ID# 918060 60 Capsules

ID# 918120 120 Capsules

† 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.

References

1. Rhodiola rosea. *Altern Med Review* 2002;7 (5):421-423.
2. Shevtsov, VA, Zholus BI, et al. A randomized trial of two different doses of a SHR-5 Rhodiola rosea extract versus placebo and control of capacity for mental work. *Phytomedicine* 2003; 10(2-3):95-105.
3. Spasov AA, Wikman GK, Mandrikov, et al. A double blind, placebo controlled pilot study of the stimulating and adaptogenic effect of Rhodiola rosea SHR-5 extract on the fatigue of students caused by stress during an examination period with a repeated low-dose regimen. *Phytomedicine* 2000;7:85-89.
4. American Botanical Council. American Botanical Council. Eleuthero root. <http://www.herbalgram.org>. 2002.
5. Eleutherococcus senticosus. *Altern Med Review* 2006;(11):2.
6. Facchinetti F, Neri I, Tarabusi M. Eleutherococcus senticosus reduces cardiovascular response in healthy subjects: a randomized, placebo-controlled trial. *Stress Health* 2002; 18:11-17.
7. Halstead BW, Hood LL. Eleutherococcus senticosus /Siberian ginseng: An introduction to the Concept of Adaptogenic Medicine. Long Beach, CA: Oriental Healing Arts Institute; 1984:28.
8. Panossian, AG, Oganessian AS, et al. Effects of heavy physical exercise and adaptogens on nitric oxide content in human saliva. *Phytomedicine*. 1999; 6(1):17-26.
9. Kang SY, Lee KY, et al. ESP-102, a standardized combined extract of Angelica gigas, Saururus chinensis and Schizandra chinensis, significantly improved scopolamine-induced memory impairment in mice. *Life Sci* 2005; 76(15):1691-1705.
10. Guilliams TG, Edwards L. Chronic Stress and the HPA Axis. *The Standard* 2010;9(2).
11. Mishra, LC, Singh BB, Dagenais S. Scientific basis for the therapeutic use of Withania somnifera (ashwagandha): a review. *Altern Med Rev* 2000; 5(4):334-346.
12. Withania somnifera. Monograph. *Altern Med Review* 2004;9(2):211-214.
13. Onuki M, Suzawa A. Effect of pantethine on the function of the adrenal cortex. 2. Clinical experience using panthethine in cases under steroid hormone treatment. *Horumon To Rinsho* 1966;14:843-847.
14. Tomoda A, Miike T, Matsukura M. Circadian rhythm abnormalities in adrenoleukodystrophy and methyl B12 treatment. *Brain Dev* 1995;17: 428-431.