

Rhodiola 150

HERBAL SUPPLEMENT

Adaptogenic herbal support*

- Helps the body respond to occasional mental and physical stress*
- Promotes energy metabolism and physical working capacity*
- Promotes antioxidant defense*
- Provides 300 mg of rhodiola root extract per day

Rhodiola 150 provides rhodiola, an adaptogenic herb used in traditional medicine. 1* Rhodiola provides support for occasional mental and physical stress by promoting healthy stress response and through moderation of certain stress hormones.1* By promoting neurotransmitter activity, rhodiola also supports cognitive function, including mental focus and stamina.1* Recent clinical trials have demonstrated that daily supplementation with 100-200 mg of rhodiola extract significantly supports mental and physical well-being during occasional stress, promotes exercise capacity, regulates work-related fatigue, and provides antioxidant protection.2-4*



Supplement Facts Serving Size 2 Capsules

Servings per Container 30

Each Serving Contains Rhodiola (Rhodiola rosea) Root Std. Extract

(3% Rosavins, 1% Salidroside)

† Daily Value not established

Other ingredients: Hypromellose, cellulose

Recommended Adult Dose: Take two capsules daily or as recommended by your healthcare practitioner. Not to be taken immediately before bedtime.

Product Size: 60 Vegetable Capsules Product Code: 07641









-HENENLES. Hung, SK, Perry, R, Ernst, E, Phytomedicine. 2011; 18: 235—244. Spasow, AA, Wikman, GK, Mandrikov, VB, Mironova, A, Neumoin, VV. Phytomedicine. 2000; 7(2): 85-89. Darbinyan, V, Kteyan, A, Panossian, A, Gabrielian, E, Wikman, G, Wagner, H. Phytomedicine. 2000; 7(5): 365—371. Skapanskas-Stejphorn, A, Pilaz-gryskas-Szczesniak, L, Basta, P, Deskur-Smielecka, E. International Journal of Sport Nutrition and Exercise Metabolism. 2009; 19: 186–199.

*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.

This information is intended for use by healthcare practitioners only and does not establish a doctor-patient relationship. Please be sure to consult your physician before taking this or

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300 mg



Rhodiola 150 HERBAL SUPPLEMENT

Scientific Rationale:

Rhodiola, a plant used in traditional medicine, is found at high altitudes in the Arctic, Asia and Europe. By regulating the activity of enzymes that degrade neurotransmitters and by prolonging neurotransmitter activity in the brain, rhodiola promotes bio-electrical brain activity.1* This supports cognitive function, including attention, memory and learning abilities.1* As an adaptogen, rhodiola helps to promote healthy stress response and moderates mediators of stress response, including the stress hormone cortisol and neuropeptide Y, which plays a role in energy balance, memory, learning and mood.1,2* Rhodiola also provides antioxidants to promote optimal health.3*

In a randomized, double-blind, placebo-controlled trial, rhodiola intake significantly improved mental function among male students during an examination.4* Participants were randomized to consume either placebo or rhodiola tablets (containing a total of 100 mg of rhodiola) daily for 20 days.4 Efficacy tests, which were conducted at baseline and at the end of the study period, analyzed self-rated fatigue (forms of fatigue, sleeping patterns, mental discomfort, mood instability), self-rated general well-being (general state, degree of activity, mood and motivation to work), psycho-motor function (spiral maze), and physical fitness (physical working capacity measured by cycling test PWC-170 and the subsequent change in pulse rate).4 When compared to placebo values, rhodiola supplementation significantly improved self-rated fatigue, self-rated general well-being, and psychomotor function.4* Specifically, the accuracy of movement in the spiral maze test (when compared to the speed of movement) significantly improved by 50% when compared to the placebo.4* Additionally, participants' pulse rates were measured before and after the physical fitness test.⁴ The increase in pulse rate was significantly lower in the rhodiola group when compared to the placebo group, further demonstrating the beneficial effects of rhodiola during periods of stress.4*

In a randomized, double-blind, placebo-controlled crossover trial involving 24 healthy students, rhodiola supplementation significantly improved exercise capacity.5* Participants were randomly assigned to consume either a placebo or rhodiola extract (providing 200 mg of the extract daily).6 After a one-hour absorption period, exercise capacity was measured by an incremental test on a bicycle ergometer (workload was increased every minute after the warm-up period

until exhaustion). The entire experimental procedure was repeated following a crossover design after a five-day washout period.⁶ When compared to placebo values, acute rhodiola intake significantly increased time to exhaustion, as well as peak O_2 uptake and peak CO₂ output.^{5*} Therefore, rhodiola supplementation increased exercise capacity during a stressful, incremental exercise test in young, healthy adults.5*

A randomized, placebo-controlled, double-blind, crossover study evaluated the effects of rhodiola supplementation on work-related fatique.⁶ Participants were randomized to consume either a placebo or rhodiola supplement (containing 170 mg of rhiodiola extract) daily for two weeks.⁶ After a two-week washout period, participants consumed the alternate supplement.⁶ Five tests were performed to determine the degree of fatigue, including word association, spelling, subtraction, word recall and numerical sequencing.⁶ A total fatigue measure was calculated from the individual five measurements, which were scored according to the following calculation: (test score before night duty / test score after night duty) x 100.6 Each test was conducted before and after night duty, with a 24-hour separation period between the tests.⁶ The efficacy tests were conducted four times throughout the study: at baseline, after two weeks of supplementation, after the completion of the washout period, and after two weeks of consuming the alternate supplement.⁶ When compared to placebo values, performance scores significantly improved by 20% after two weeks of rhodiola supplementation, demonstrating the ability of the rhodiola supplement to decrease work-related fatique.6*

In a randomized, placebo-controlled trial involving male athletes, rhodiola supplementation provided antioxidant support after exercise.3* Participants randomly consumed a placebo or rhodiola supplement (100 mg of rhodiola) twice daily for four weeks.³ Blood samples were conducted before and after a 2,000 m rowing test and analyzed for total antioxidant capacity – a measure of the total antioxidant status in the body.3 When compared to baseline values, rhodiola supplementation significantly increased total antioxidant capacity before, directly after and 24 hours after exercise. ** Although oxidative stress was induced by exercise, rhodiola supplementation increased antioxidant levels in the plasma of participants, indicating its beneficial effects on antioxidant support.3*

Hung, SK, Perry, R, Ernst, E. Phytomedicine. 2011; 18: 235–244.

Zanossian, A., Wikman, G., Sarris, J. Phytomedicine. 2010; 17: 481–493.
Skarpanska-Steinborn, A., Pilaczynska-Szczesniak, I., Basta, P., Deskur-Smilelecka, E. Int J Sport Nutr Everc Metab. 2009; 19: 186–199.
Spasov, A., Wikman, GK, Mandrikov, VB, Mironova, A., Neumoin, VV. Phytomedicine, 2000; 7(2): 85-89.
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6. Darbinyan, V, Kteyan, A, Panossian, A, Gabrielian, E, Wikman, G, Wagner, H. Phytomedicine. 2000; 7(5): 365-371.

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