Discussion

The effectiveness of MUNGBEAN AND SEA BUCKTHORN’s ability to increase testosterone levels has been evaluated by laboratory analyses. Chief among this formula’s benefits over pharmaceutical grade testosterone is that salivary assays following the use of MUNGBEAN AND SEA BUCKTHORN at the recommended dose did not show an increase in estradiol or dihydrotestosterone.\(^{(1)}\) This conversion is likely inhibited by the rich content of apigenins which are among the 28 kinds of flavonoids present in the Green oats (Swiss Oats A111 \(™\)).\(^{(2)}\) Traditionally used for prostate health, nettle may have some association with sex hormone binding globulin and aromatase.\(^{(3)}\) Sea buckthorn contains lignans. Lignans block aromatase and 5- alpha reductase, sparing testosterone.\(^{(4)}\) Oats, nettle and buckthorn are known to contain neurotransmitters that improve mood.\(^{(5)}\)

As men age, testosterone levels decrease by approximately 1-2% annually. Lower levels of this hormone have been associated with a decline in libido, weaker erections and/or a decreased ability to become erect, lack of energy, less strength &/or endurance, loss of height, decreased enjoyment in life, being sad or grumpy, less ability to play sports, falling asleep after dinner or decreased work performance.\(^{(5)}\) Five percent of males aged 40-50 years and perhaps as many as 70% of men over 70 years are confronted by these problems known clinically as “hypogonadism” and also referred to as “Andropause”.\(^{(6,7,8)}\)

The majority of testosterone (approximately 60%) is bound to sex hormone binding globulin. Of that considered bioavailable and the best indicator of male androgen status, approximately 38% is weakly bound to albumin and the remaining approximate two percent is known as “free” testosterone.\(^{(5)}\)

Against a background of earlier studies with Swiss Oats A111 \(™\) that showed significant increases in free testosterone levels and significant improvement in andropausal symptoms,\(^{(9,10)}\) Human Performance Specialists, in partnership with Aeron Life Cycles Clinical Laboratory\(^®\) confirmed the efficacy of MUNGBEAN AND SEA BUCKTHORN in a small study. The ADAM screening questionnaire (Androgen Deficiency in the Aging Male) was administered for a baseline assessment of symptoms and repeated after one month.\(^{(11)}\) Saliva bioavailable testosterone was measured before and after supplementation by the Aeron SBA-T Assay.\(^{(12)}\) Extensive circadian testing was used to confirm a 24-hour pattern of reduced testosterone output before supplementation, followed by an increase in bioavailable testosterone after two weeks of uninterrupted supplementation with MUNGBEAN AND SEA BUCKTHORN. Measurement of salivary testosterone after further supplementation confirmed increased levels in those men who had low levels prior to using the formula. Follow-up ADAM tests scores demonstrated symptomatic improvements.\(^{(13)}\)

\*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.
Supplement Facts

Serving Size: 4 Capsules
Servings Per Container: 30

Amount Per Serving %Daily Value

Mungbean and Sea Buckthorn Proprietary Blend of Mungbean Powder (Vigna radiata)(sprout), Green Oat Extract, Oat Bran Fiber, Stinging Nettle Extract (Urtica dioica)(leaf), and Sea Buckthorn (Hippophae rhamnoides)(fruit)

** Daily Value not established.

Other ingredients: HPMC (capsule), stearic acid, and magnesium stearate.

Directions

Take four capsules with 8 oz of water once a day, upon waking, or as directed by your healthcare practitioner.

Children and pregnant or lactating women should consult their healthcare practitioner prior to use. Do not use if tamper seal is damaged.

References

1. “Confirmation of salivary measurement following administration of XYMOGEN® Swiss Oats (A111) and Soy Formulation.” Aeron Life Cycles Clinical Laboratory, San Leandro, CA 2007
9. "Efficacy of Swiss oats in the management of male menopause as measured by change in the andropause score and testosterone levels." 1999. Peter Lim, M.D. Division of Urology Dept of Surgery, Changi General Hospital, Singapore.(Unpublished)
11. Same as 5.
13. Same as 1.

Does Not Contain

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

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