

# Proflo



## CLINICAL APPLICATIONS

- Promotes Healthy Urinary Tract Flow and Frequency
- Helps Maintain Hormonal Balance
- Provides Nutrients that Support Prostate Health

## PREMIER MEN'S HEALTH

This product includes botanicals and trace minerals which work in synergy to support healthy prostate function. Saw palmetto extract, stinging nettles root extract, and pygeum bark extract each support prostate health in unique ways and work together to support healthy urinary flow and urination frequency, and to maintain a balanced cycle of inflammation in the prostate. This product includes a potent, standardized extract of saw palmetto, a 16:1 extract of stinging nettles root, and a standardized dried extract of the bark from *Pygeum africanum*, as well as chelated form of zinc, copper and selenium to support healthy prostate function.

### Overview

Prostate enlargement can affect several factors of men's health including urinary flow and overall prostate health. Testosterone, its potent metabolite dihydrotestosterone (DHT), and estrogen are hormones that affect the prostate gland. Testosterone is converted into estrogen via the enzyme aromatase. Aromatase levels increase as men age resulting in a subsequent decline in testosterone levels and increased estrogen production. Testosterone is also converted to its more potent form, DHT, via the enzyme known as 5-alpha-reductase. The combination of increased estrogen levels along with elevated DHT is thought to be a key factor in enlargement of the prostate gland.<sup>[1]</sup> Natural aromatase inhibitors and botanicals that prevent increased DHT and estrogen levels are included in this product to help support healthy urinary flow, hormone metabolism, and overall prostate health.

### Saw Palmetto<sup>†</sup>

The fat-soluble extract of the fruit of the saw palmetto tree, (*Sabal serrulata*) native to Florida, has been extensively researched for its ability to support prostate health. The mechanism of action of saw palmetto includes inhibition of the enzyme 5- $\alpha$ -reductase and interfering with prostate estrogen receptors.<sup>[2,3]</sup> In a meta-analysis of 18 randomized controlled trials involving 2,939 men, saw palmetto had significant benefits, promoting normal urinary flow, nighttime urinary frequency, and peak urine flow rate.<sup>[4]</sup> In a six-month, double-blind, randomized trial of 1,098 patients, saw palmetto supported healthy prostate scores, peak urinary flow rate, and promoted healthy sexual function.<sup>[5]</sup>

### Stinging Nettles Root Extract<sup>†</sup>

Stinging nettles root extract (*Urtica dioica*) is a perennial plant that grows abundantly and has been used in traditional medicine in Europe and Asia. Multiple active compounds in nettles root, including lignans and trihydroxyoctadecenoic acids, have been shown to support prostate health.<sup>[6]</sup> A double-blind placebo-controlled trial demonstrated that stinging nettles root reduced sex hormone-binding globulin (SHBG) levels in men.<sup>[7]</sup> SHBG, a protein produced primarily in the liver, serves as a transport carrier shuttling estrogen and testosterone to sex hormone receptors throughout the body. With aging, SHBG levels can rise, even though the production of hormones continues to decline. Elevated SHBG traps free testosterone creating hormone shifts that negatively impact prostate gland health. In addition to reducing SHBG levels,

<sup>†</sup> 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.

nettles root has been shown to block the SHBG receptor, preventing an increase in hormone receptor activity.<sup>[8]</sup> Due to its broad spectrum of effects on hormone balance and prostate health, nettles root extract helps maintain normal prostate growth and size.<sup>[9,10]</sup>

### Pygeum Bark Extract†

*Pygeum africanum* is an evergreen tree native to Africa, and its bark has been used by natives to support urinary health. Pygeum has been shown to block androgen precursors and has also been shown to maintain normal prostate size by inhibiting growth factors responsible for prostate growth in men.<sup>[11]</sup> Pygeum also supports a healthy inflammatory response by inhibiting the lipoyxygenase enzyme.<sup>[12]</sup> In a study of 85 patients given 50 mg pygeum twice daily for two months, quality of life scores improved and pygeum was shown to significantly support normal urinary frequency.<sup>[13]</sup> A dose comparison trial of 209 patients divided into two groups, which received either 100 mg pygeum extract once daily or 50 mg twice daily, showed both groups to have similar, positive outcomes maintaining healthy urinary flow rate.<sup>[14]</sup>

### Herbal Synergy†

The synergistic relationship of saw palmetto, nettles and pygeum has been proven in the literature.<sup>[15,16]</sup> A randomized clinical trial found the combination of saw palmetto extract (160 mg) and stinging nettles root extract (120 mg) more effectively supported all parameters of prostate health measured, and had fewer side effects than other traditional medical approaches.<sup>[15]</sup> The combination of pygeum and nettles root extracts have also been shown to block aromatase activity to a greater extent than either extract alone.<sup>[16]</sup>

### Zinc, Selenium and Copper†

Ensuring adequate zinc status is important in older men where elevated estrogen levels may decrease the absorption of zinc. Zinc is also a strong inhibitor of 5-alpha-reductase, resulting in less testosterone to DHT conversion.<sup>[17]</sup> Copper is included in this product to prevent a zinc-induced copper depletion. Selenium helps support prostate health by boosting antioxidant-promoting pathways specifically related to prostate health.

### Directions

1 capsule per day or as recommended by your health care professional.

### Does Not Contain

Gluten, yeast, artificial colors and flavors.

### Cautions

Do not consume this product if you are pregnant or nursing. Consult your physician for further information.

V1		
<b>Supplement Facts</b>		
Serving Size 1 Capsule		
Servings Per Container 60		
1 capsule contains	Amount Per Serving	% Daily Value
Zinc (as TRAACS® Zinc Bisglycinate Chelate)	8 mg	53%
Selenium (as Selenium Glycinate Complex)	50 mcg	71%
Copper (as TRAACS® Copper Bisglycinate Chelate)	0.5 mg	25%
Saw Palmetto (Standardized to contain 45% Fatty Acids)	300 mg	*
Nettles Root Extract (Standardized to contain 30 ppm Scopoletin)	120 mg	*
Pygeum Bark Extract	50 mg	*
* Daily Value not established		

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## References

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