

# Nutriline-Sawpalmetto

PURE SAW PALMETTO EXTRACT

FOR A HEALTHY PROSTATE

**Nutriline-Sawpalmetto** is pure, concentrated sawpalmetto extracted from the sawpalmetto herb by Novo's SCFE extraction process & is a rich source of beneficial phytonutrients. This wonder phytonutrient is packed with a rich composition of healthful fatty acids, phytosterols, free fatty alcohols and mono glycerides, and provides a natural way to maintain a healthy prostate. Novo's extraction process gives Nutriline-Sawpalmetto the edge with longer shelf life as well as increased bioavailability to the user, making Nutriline-Sawpalmetto highly effective even in low doses. Nutriline-Sawpalmetto extract had EFA content of 100% (industry bench mark of 85%) with Beta-sitosterol at 5 times the standard level (Beta-sitosterol is the compound in sawpalmetto that contributes to reduction of dihydro testosterone (DHT)).

Campesterol	Stigmasterol	$\beta$ -Sitosterol	Fatty Acids
0.01 - 0.1%	0.01 - 0.1%	0.1 - 0.6%	> 90%

## Health benefits of Sawpalmetto

Sawpalmetto supplementation is a natural way to deal with prostate ailments. Sawpalmetto supplementation has health benefits on conditions such as,

- ▶ Benign Prostatic Hyperplasia (BPH).
- ▶ Chronic Prostatitis.
- ▶ Prostate Cancer.

It effects prostate growth by,

- ▶ Inhibiting 5 alpha-reductase, an enzyme that helps in conversion of testosterone to DHT. DHT is associated with prostate growth.
- ▶ Inhibition of binding DHT to androgen receptors in prostate cells.
- ▶ Contributes to anti-estrogenic action.
- ▶ Sawpalmetto's compounds reduce the action of Insulin like growth factor IGF-1, which is important for prostate growth & Development.
- ▶ Acts as an alpha1 antagonist.
- ▶ Inhibits prolactin-induced cell proliferation.
- ▶ Modifies bax/bcl-2 index expression and capase-3 activity in prostatic tissue.
- ▶ Anti-inflammatory effects.

## Novo's SCFE Process for Superior Product

Nutriline-Sawpalmetto is produced at Novo's 1000 tpa Super Critical Fluid Extraction (SCFE) plant in India. The SCFE process is widely regarded as the best process for extraction.

- ▶ It extracts sawpalmetto such that it remains intact and at its highest level of concentration and purity.
- ▶ Concentrated extract exclusively composed of the raw material ingredients can be used in low dosage.
- ▶ Concentrated extracts can be easily assimilated by the human body.
- ▶ The process is gentle on active ingredients since extraction is at high pressure and low temperature and creates no environmental hazards.
- ▶ The extraction agent, CO<sub>2</sub>, is GRAS certified, non-toxic, non-flammable and acceptable for use in food and beverages.
- ▶ CO<sub>2</sub> is free of bacterial content and microbiological activities.



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