

# Nutriline-Policosanol

PURE SUGARCANE EXTRACT REDUCE CHOLESTEROL

**Nutriline-Policosanol** is a pure and concentrated Policosanol extracted from sugarcane by Novo's SCFE extraction process & is a rich source of healthful phytonutrients. Novo's patented extraction process gives Nutriline-Policosanol the edge (with Octacosanol > 60%), which is evident in its longer shelf life as well as increased bioavailability to the user, making Nutriline-Policosanol highly effective even in low doses.

Product Code	LCF Alcohols	1-Octacosanol	Remarks
PO 001	> 90%	60-70%	Powder

## Health benefits of Policosanol

Policosanols are a mixture of fatty alcohols that are highly effective in reducing blood cholesterol levels and decreasing risk of Coronary Heart Disease (CHD). Clinical studies clearly demonstrate that policosanols, is as effective as prescription drugs, and without any side effects when it comes to dealing with high cholesterol. Policosanol supplementation is a natural way to deal with CHD since elevated cholesterol content in the blood is one of the prime causes that leads to CHD. Cholesterol, incorporated in lipoproteins, is either 'good cholesterol' high density lipoproteins or HDL (which have less cholesterol) or 'bad cholesterol' low density lipoproteins or LDL (which have more cholesterol). For cardiovascular health it is imperative to have a healthy LDL to HDL ratio, ideally below 3.5, i.e. by reducing LDL levels and increasing HDL levels.

Policosanols supplementation is beneficial since it,

- ▶ Normalizes cholesterol as well, or better than cholesterol lowering drugs.
- ▶ Appears to reduce the proliferation of cells in arteries.
- ▶ Inhibits formation of clots.
- ▶ Shows positive results with type II diabetic patients.

## Policosanols and Statins - A Comparison

Clinical studies comparing policosanols and statins (pharmaceutical compounds) found that policosanols treatment,

- ▶ Was superior to treatment with the prescription drug Fluvastatin.
- ▶ Was better tolerated.
- ▶ Provided superior protection against LDL oxidation.
- ▶ Had no side effects.
- ▶ Can be used in diabetics, elderly subjects and in patients with impaired liver damage

## Novo's SCFE Process for Superior Product

Nutriline-Policosanols 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 for the following reasons.

- ▶ It extracts policosanols such that it remains intact and at its highest level of concentration and purity.
- ▶ Concentrated extract is exclusively composed of the raw material ingredients and 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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