

Policosanol

Nano- Concentrate. (Water Soluble)

Body's Lipid Manager

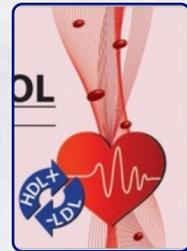
Small size of nanoparticles enables them to pass through natural biological barriers, such as the intestinal epithelia, facilitating better entry into the body and target sites.

Policosanol is a mixture of long-chain aliphatic alcohols ranging from 24 to 34 carbon atoms. The major components of policosanol mixture are octacosanol, triacontanol, hexacosanol, and Heptacosanol. The common source of isolating policosanol is sugar cane wax (Saccharum officinarum L.), rice bran, oats, barley, and bees wax. Policosanol is a Hydrophobic Molecule that prevents this Novel molecule from easy Bio-absorption thus limits its actual functional effect in the body, Helixion Biosciences has developed this Nano Extract of Policosanol which is 100% water soluble & thus can be used in lot of liquid therapeutic & Nutraceutical products. Policosanol has multiple health improving properties, including the lowering of lipids, anti-aging, tissue regeneration, cardiovascular protection, and protection against diabetes, hypercholesterolemia, Parkinson's disease and inflammation. Policosanol belongs to the class of drugs called lipid modifying agents. It acts by decreasing the cholesterol production in liver thereby reducing the bad cholesterol (low-density lipoprotein or LDL) level in the blood.



Benefits of Policosanol Supplement

-  Support Healthy Triglyceride
-  Good for Cholesterol
-  Healthy Circulatory
-  Healthy Heart



WHO SHOULD CONSUME POLICOSANOL

Individuals Looking for Natural Heart Health Support

Athletes and Energetic Individuals

People use policosanol to reduce symptoms of intermittent claudication (leg pain due to poor circulation).

Policosanol supplementation helped reduce blood glucose levels.

People who experience muscle pain or liver issues.

People with Mild to Moderate High Cholesterol can consume policosanol.

PACKAGING/ STORAGE/ SHELF LIFE

Packaging:
 5kg Aluminium can/ Packed under Sterilized condition

Storage Condition:
 Nutritional & Food Industries, Medicinal & Pharmaceutical Uses, Water Treatment, Agriculture industries.

Shelf Life:
 36 months if stored in specified storage conditions.

APPLICATION DETAILS

S.No.	Various Applications	Main Claims Markers for Recommended Applications	Recommended Dosage / Bulk Batch (For the Manufacturer of a Consumer brand)	Effective Dosage / Serving (For the Ultimate Consumer)	Recommended Dosage / Day		
					For Adults	For Teenagers	For Kids (5-10 yrs)
1.	Supports Heart Health (Spray / Nanoshot per 5 mL)	Total policosanol content - 0.45%	Considering Bulk Batch of 1000 liters , around 550 liters of This Nano-Policosanol (Water Soluble) to be added to produce a batch of a Bulk Product with effective 0.25% of Policosanol concentration	Spray - 0.25% Policosanol / mL NanoShot - 0.25% Policosanol / 5mL	Once Daily	Once Daily	NA

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**Peptide for people sensitive to Gluten/
Soy/ Dairy**

NUTRITIONAL VALUE

Sensory Data

Appearance	Liquid
Colour	White
Odour	Characteristic

Microbiological Profile

Total Viable aerobic count	<100cfu/g
Total Fungal count	<10cfu/g

This is a Nutritional Supplement and not a replacement for medical treatment.

Functional Bioactive

Heptacosanol	140-150 mcg/g
Hexacosanol	210-220 mcg/g
Octacosanol	2900-3000 mcg/g
Triacotanol	1080-1100 mcg/g
Total Policosanols	4330-4470 mcg/g

Heavy Metals

Lead (Pb)	NMT 2 ppm
Cadmium (Cd)	NMT 1 ppm
Arsenic (As)	NMT 2 ppm
Mercury (Hg)	NMT 0.1 ppm

**Claims to lower
Cholestrol**

**Claims to reduce
blood glucose**

**May inhibit Blood
Clot formation**



SCIENTIFIC STUDY REFERENCES

Efficacy and Safety of Policosanol (Sugarcane Wax Alcohols) 20 mg/ Day in Cuban Prehypertensive Patients: A Randomized, Double-Blind, Multicentre Study.,
Revuelta M, Jimenez Chiquet A, Valdes Y, et al.

A 8-week, randomized, double-blind, placebo-controlled human trial to evaluate the efficacy and safety of Saccharum officinarum wax alcohols (Policosanol) on improvement of blood cholesterol.
H.-R. Kim, Y.-S. Kim, P. Antonisamy et al.

Effects of Policosanol in Older Patients With Type II Hypercholesterolemia and High Coronary Risk.
Gladys Castaño, Rosa Más, J.C. Fernández, J. Illnait, Lilia Fernández, Estrella Alvarez.

Effects of Policosanol in Patients With Metabolic Syndrome: A Six-Month Study.
Arteche-Hidalgo, Liuba, Julio Cesar Fernandez-Travieso, Noysbel Suarez-Camejo, et al.