



Specialty Carbohydrates

Your New Ton-Scale Non-GMO Rare Sugars Source



Visit us

Stand **12A20**



SETENTA E TRÊS MIL E CEM, LDA.

The Company

- Portuguese SME, founded in July 2006
- 100% Privately held Company
- Technological-based Company
- H2020 FucoPol Project undergoing
- Main activities:
 - Biotechnology and R&D and Product Development
 - IP Development & Management



Fucopol
a Fucose-rich Biopolymer

TECHNOLOGY

FucoPol

Production of a new microbial polysaccharide from the **by-product of the biodiesel industry, rich in glycerol**, by fermentation in bioreactor



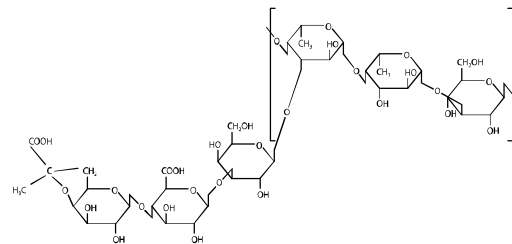
Fermentation *Enterobacter A47*

Extracellular Polysaccharide - **exopolysaccharide (EPS)**



FucoPol

New polysaccharide microbially produced from glycerol



Major components:
Fucose (30%) ; Galactose (30%)
Glucose (30%) ; Glucuronic acid (10%)

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FucoPol - Applications

Properties:

- > Thickener
- > Emulsifer
- > Stabilizer
- > Functional ingredient as source of L-fucose *in situ*

FucoPol is available for use in:

Food industry

(bakery products, desserts (including low-calorie products), soups, juices/soft drinks, pulps, meat products).

Food Packaging

Nutraceutical industry
in functional foods and dietary supplements

Pet supplements

Cosmetic products

Activities in the area of
water/effluent treatment

Companies producing biodiesel that want to value the sub-product rich in glycerol



L-Fucose

L-Fucose

Benefits

- > **One of the 8 Essential sugar** – the only component of glycoconjugates of vertebrates in the L configuration.
- > It carries many anti **inflammatory properties**.
- > Many people with diseases like Rheumatoid Arthritis, diabetes, cystic fibrosis, etc. have a **massive L-Fucose deficiency in the body**;
- > It has been proven that Fucose can help **inhibit the growth of tumors** as well as **kill cancer cells** in the body;
- > One reason that this substance seems to affect so many different symptoms and diseases is because of its **versatility** in its **delivery**.

http://www.glyconutritionforlife.org/Science_of_Glyconutrients/Fucose.php

L-Fucose

Applications

NON GMO Source

Ton-scale Producer

Food & Pharma Grade Product

Reagent for Research and Development

Specialty Carbohydrate
200+ hits research papers in
last 5 years

*DuPont is the only
large-scale producer*

Food Ingredient

*Applying for EFSA
Novel Food
Consultation*

*As building block of
fucosylated HMO's
production*

Pharmaceutical ingredient

*Functionalization of
Bioactive Molecules*

*Recognizing agent for
several metabolic
pathways*

Get Together

> With Partners

- For **R&D** of **new** fields of **investigation** in bioactive compounds
- For **development of new products** or **services** where L-Fucose or FucoPol as **key ingredient**

➤ With Customers

- For supplying raw materials for **product production** and **commercialization**
- For partnering in **long-term collaborations** aiming mutual interest in reducing production costs, **optimizing value-chain** and **decreasing supply chain hurdles**

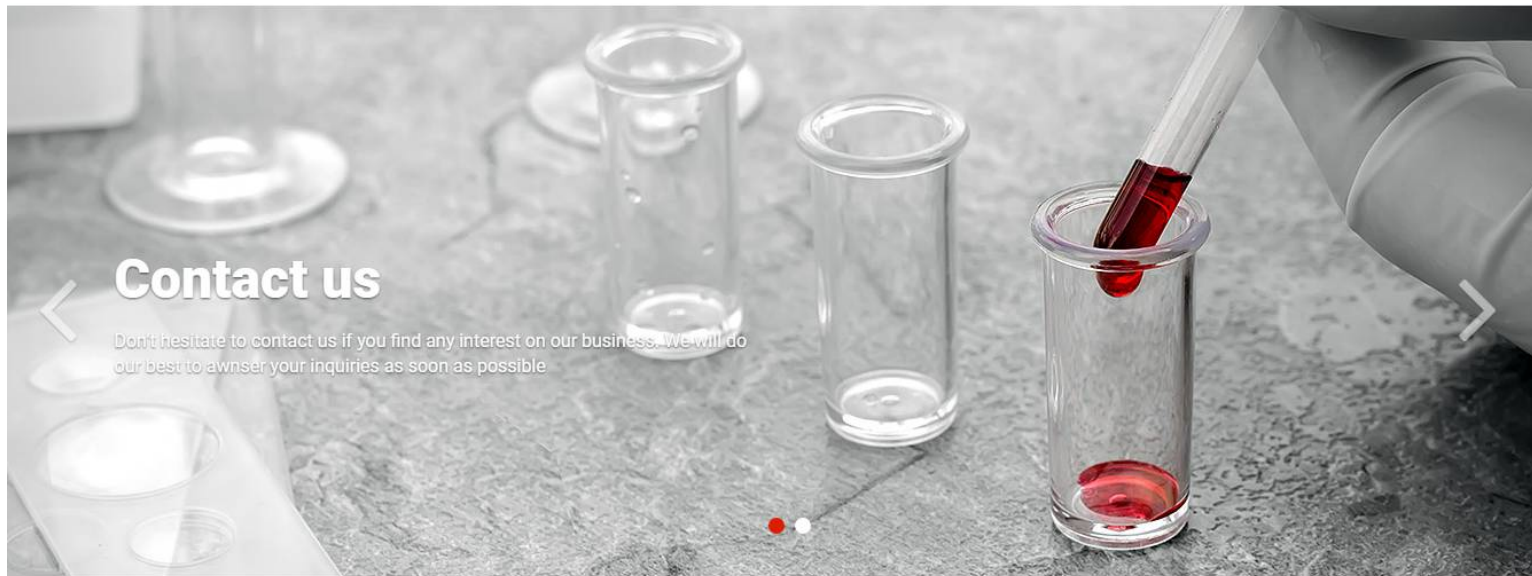
To offer

- Highly **skillful** and motivated **Staff**
- **NEw Production Plant** in 2020 with **Biotech facilities** (Fermentation, DSP and Clean Rooms)
- **IP protection** (several product and process worldwide patents)

Meet Us



[Company](#) | [Our team](#) | [Product development](#) | [Projects](#) | [Historical portfolio](#) | [Contacts](#)



Contact us

Don't hesitate to contact us if you find any interest on our business. We will do our best to answer your inquiries as soon as possible



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