



PROFILE

Biotechnology Company
Investment : USD 600,000

MAIN FEATURES

- Biodegradable and bio-based alternative for flexible plastic packing.
- Bioplastics made from agricultural waste materials (non-food sources)

TEAM



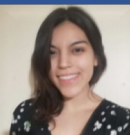
CEO
Biochemical Engineer
PhD Biotechnology



COO
Wood Engineer
PhD Bioresources Scs. Engr.



Process Manager
Biotechnology Engr. Student



Development Manager
Wood Engineer
Biotechnology Engr. Student

CONTACT DETAILS

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NatPol is a bio-based, rapidly biodegradable pellet used in the production of plastic packing. It helps plastic packing producers to minimize their environmental impact and meet regulatory requirements, while maintaining their current production line.

THE OPPORTUNITY

Bioplastics account for approximately 1% of 335 Mill Ton of plastic produced annually. Environmental problems generated by plastic overuse around the world has created an urgent need for biodegradable alternatives made from renewable sources.

SOLUTION

NatPol pellets are compatible with production lines currently being used on most of the plastic packing manufacturing industry. It allows the production of biodegradable, bio-based plastic packing based on scl-PHA and mcl-PHA biopolymers. NatPol pellets are made of agricultural waste materials and do not use food sources as feedstock.

TECHNOLOGY

NatPol uses a customized bacterial fermentation process to produce scl-PHA, mcl-PHA and the co-polymer PHBHV. Agricultural waste is used as a feedstock and different genetically engineered bacteria are used according to the polymer being produced. Patent is currently being drafted.

MARKET

Market size: USD 6 billions (2017)
CAGR: 16,5%
Segment: Packing and food services
Expected market size: USD 14.92 billions (2023)

BUSINESS MODEL

NatPol is working on two potential business models:

1. Licensing its technology to flexible plastic packing producers at national and international level.
2. Produce the pellets and sell them to directly to flexible plastic packing producers in the national market. NatPol expects to reach a 2,500 tons/year production capacity by the end of 2021.