
NATPOL

TECH BASED

STARTUP

PROFILE

Biotechnology Company.
Investment : USD 600,000.

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.

OPPORTUNITY

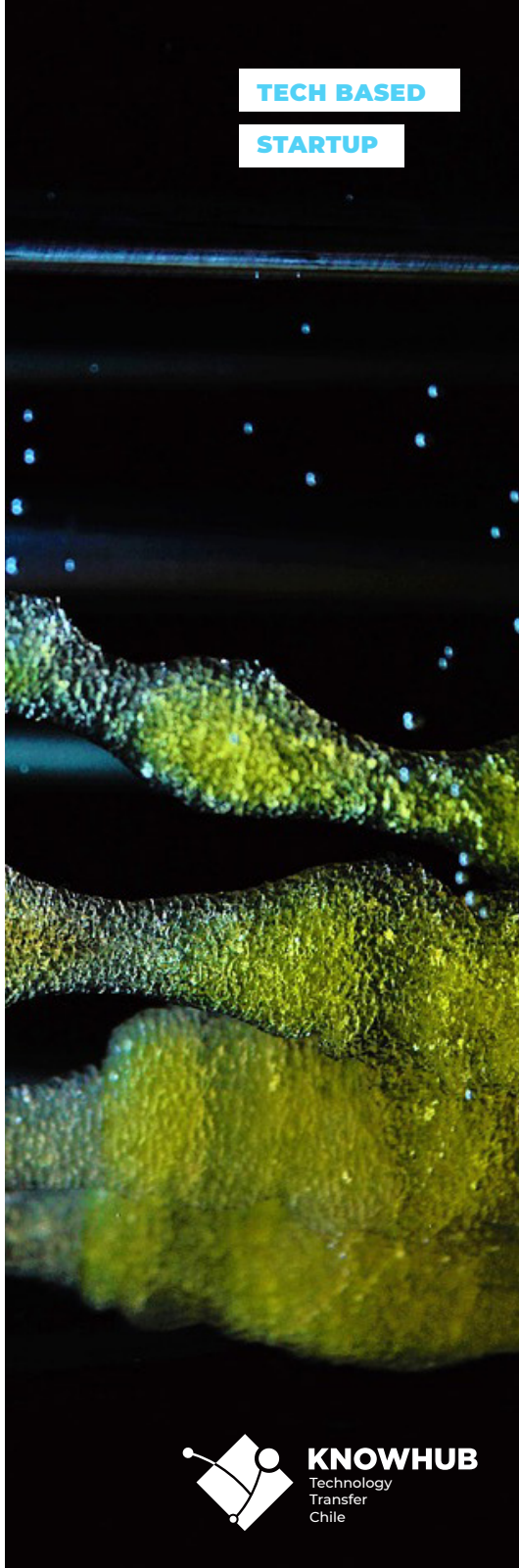
Bioplastics account for approximately 1% of 335 Mill Ton of plastic produced annually. Environmental problems generated by plastic overuse around the world have created an urgent need for biodegradable alternatives made from renewable sources.

SOLUTION

NatPol pellets are compatible with production lines currently in use in 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.



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MARKET

Market size: USD 6 billion (2017).

CAGR: 16,5%.

Segment: Packing and food services.

Expected market size: USD 14.92 billion (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. Producing the pellets and sell them 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.

MAIN FEATURES

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

TEAM



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Biochemical Engineer, PhD Biotechnology



COO,
Wood Engineer, PhD Bioresources Scs.
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Process Manager,
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