

BIO-BASED AND BIO-DEGRADABLE PLASTICS

We apply a patented extraction technology to produce bioplastics (PHAs) – reducing cost and producing a higher quality product in a more environmentally friendly way

Bioextrax was founded in 2014 as a spin-off from the biotechnology department of Lund University. We have developed a bio-based platform technology to selectively hydrolyze a number of protein rich materials, allowing us to turn waste into value. It is a green technology that can contribute to a circular economy and a more sustainable society.

Turning waste into plastic

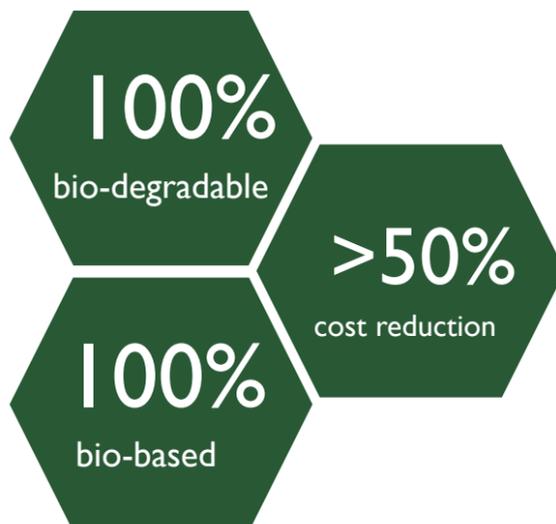
PHAs are microbiologically synthesized polyesters and are renewable and environmentally friendly substitutes to fossil based plastics. They have similar material properties as several of the most used plastics, such as PP, PE and PU. They are carbon neutral in production, bio-degradable, and do not release any toxins while being degraded.

PHAs are produced intercellularly by bacteria, therefore a method is needed to extract the granules. Bioextrax' solution utilizes microbes to hydrolyze the PHA-producing bacterium's cell walls, while leaving the polymers intact.

The unique features of Bioextrax' technology are that (1) it is completely bio-based (free of chemicals) (2) it produces native-shaped PHA granules

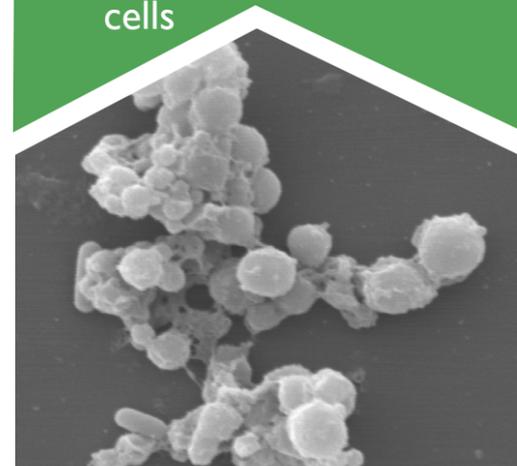
with an intact molecular weight, (3) it leaves a nutrient-rich solubilized non-PHA bacterial biomass as a co-product (20-45 wt% of cell biomass) which can be used as a protein supplement for feed.

These features allow us to reduce the extraction cost by more than half while producing a higher quality product in a more environmentally friendly way.



Key Benefits

- significant cost reduction
- 100% bio-based
- produces native-shaped PHA granules with an intact molecular weight
- applicable to all PHA types and producer cells



MANAGEMENT TEAM



CTO

Mohammad H.A. Ibrahim, PhD in Biotechnology



CEO

Edvard Hall, lawyer, entrepreneur

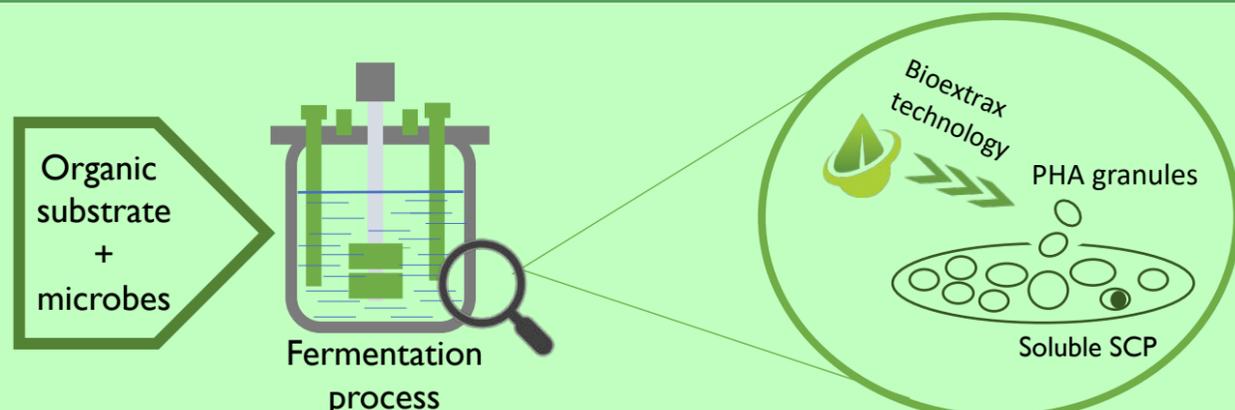
Board members

- Leif Nilsson (Swedish Plastic Association)
- Håkan Björnberg (Perstorp)
- Per Hökfelt (Diab)
- Rajni Hatti-Kaul (Lund University)

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BIOEXTRAX TECHNOLOGY



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