

BIO-BASED AND BIO-DEGRADABLE PLASTICS

We apply a patented extraction technology to produce PHAs (bioplastics) – 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.

Environmentally friendly plastics

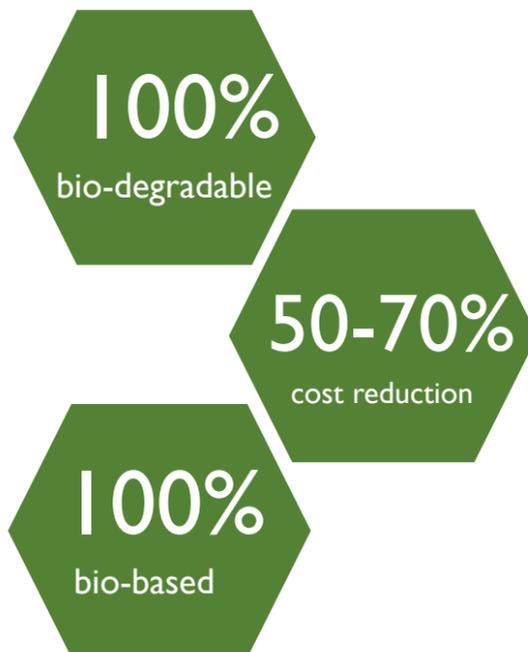
PHAs are microbiologically synthesized polyesters and are renewable and environmentally friendly substitutes to fossil-based plastics. They have similar material properties as several of the most used plastics, such as PP, PE and PU. They are carbon neutral in production, bio-degradable, and do not release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

As PHAs are produced inter-cellularly by the bacteria, 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

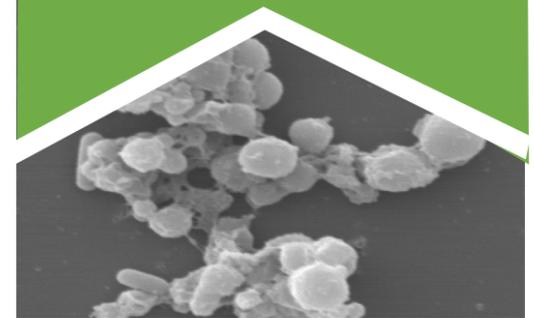
with an intact molecular weight, (3) it leaves a nutrient-rich solubilized non-PHA bacterial biomass as a co-product (20-45 wt% of cell biomass).

These features allow us to reduce the production while producing a higher quality product in a more environmentally friendly way.



Our extraction method

- Significant cost reduction
- 100% bio-based
- Produces native-shaped PHA granules with an intact molecular weight
- Applicable to all PHA types and cell producers



MANAGEMENT TEAM



CTO

Mohammad H.A. Ibrahim, PhD in Biotechnology



CEO

Edvard Hall, lawyer, entrepreneur

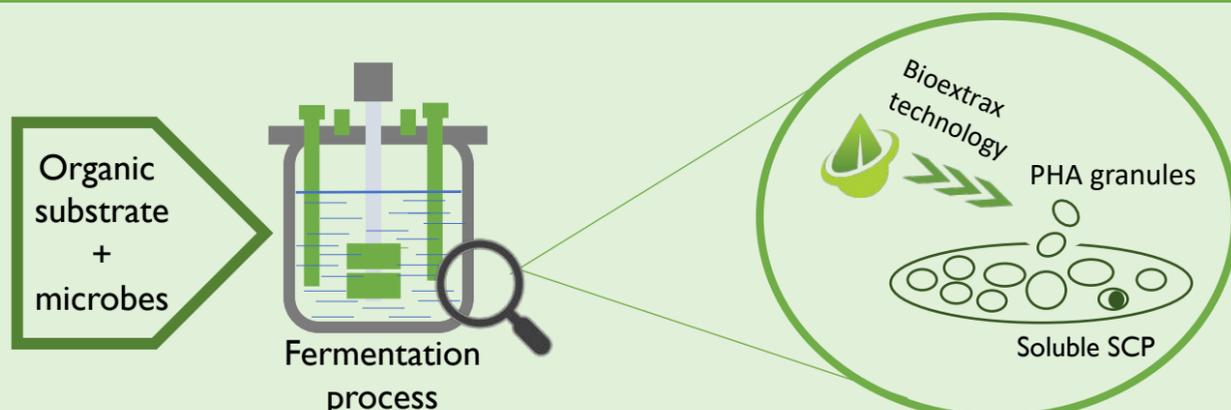
Board members

- 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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