

# BIOVOX

Bioplastics for a livable world

## Foundation

- 2021

## Branches

- Development, Production & Distribution of Bioplastics for medicine & laboratory, hygiene & food applications (Quality acc. to ISO 13485)
- Development-Services biobased products

## Key materials

- biobased and/or compostable compounds (based on PLA, PBS, PBAT, PHA, Bio-PC, ...)
- food contact & medical grade (ISO 10993)
- antimicrobial effect optional

## Key products

- MedEco
- Regiogradable(R)
- Distribution of nature2need products Bioblend, Spectabio, Natureblend, Organoblend

## What we offer

We offer Medical Grade Bioplastics for highly regulated and complex applications.

Our BIOVOX experts support you all the way from the feasibility analysis, to prototyping and marketing.

## Great material

- ✓ Medical & food contact grades
- ✓ Tailored to your requirements
- ✓ Up to 100% biobased content
- ✓ Up to 85% lower CO<sub>2</sub> footprint
- ✓ Antimicrobial effect optional
- ✓ Biodegradable grades

## Great service

- ✓ Scientifically proven marketing
- ✓ material for your business success
- ✓ Long-term formulation consistency
- ✓ ISO 13485 documentation
- ✓ ISO 10993 material qualification

## BIOVOX IN 3 SENTENCES

Seamless quality acc. to ISO 13485, safety acc. to ISO 10993 & FDA and transparent, scientifically based statements on improved environmental impact - we help you to keep all regulations under control in an easy and safe way.

From feasibility analysis with prototypes to marketing, our proven and agile bioplastics experts as well as our partner network are at your side - so that you can succeed on time and on budget with verifiably sustainable products.

We have future eco-regulation on our radar - with renewable materials we get your transformation to a circular economy up to speed and ensure that you are fit for the future!

## Why Bioplastics?

### Climate Change & Microplastics

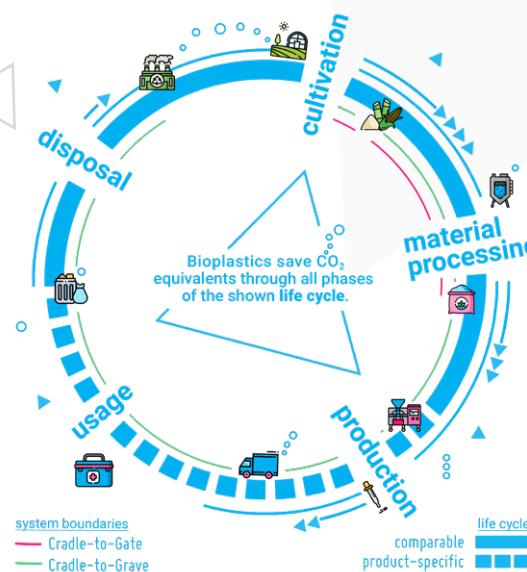
A credit card's worth of microplastics in our food every week, rising temperatures and littered oceans. Conventional plastics contribute to our biggest environmental problems. With the right bioplastics solutions, you can support the shift to more sustainability.

### Future-Proof

Future EU regulation under the Circular Economy Action Plan will have a major impact on the plastics industry. CO<sub>2</sub> and microplastic emissions as well as unclosed material cycles will be heavily regulated, e. g. by recycling quotas. With BIOVOX plastics made from renewable raw materials, you meet the regulatory requirements of the coming years. What does this mean for your company? Let's talk about it!

### Circular Economy

Renewable resources are particularly practical to close material loops. Our thermoplastic bioplastics can be recycled, just like conventional thermoplastics. Chemical recycling is also possible.



But they are also particularly sustainable as highly pure virgin plastics: they act as carbon storage for CO<sub>2</sub> just recently absorbed by plants from the atmosphere - unlike fossil plastics, which get their carbon from deposits deep within the earth.

When burned or composted, bioplastics made from renewable resources also release their stored carbon. However, this CO<sub>2</sub> cycle is many millions of years shorter than that of fossil oil. With BIOVOX materials you are closing loops in the shortest possible way!

# BIOVOX

Bioplastics for a livable world

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## Ready for upcoming regulations?

Fortunately, efforts to limit climate change and for a more sustainable economy are increasing worldwide.

With its 17 Sustainable Development Goals, the United Nations has adopted a catalog of categories of which we address four.

Almost all nations have committed to achieving improvements in these categories. In the EU, this is being implemented through the European Green Deal and subsequently the EU Climate Law, the Action Plan for Financing Sustainable Growth and the Circular Economy Action Plan.

**This will have a massive impact on legislation and standardization in the coming years - and on the ability of companies to market their products and refinance themselves (EU 2020/852).**

Read more about upcoming regulations in our BioWiki!



## Applications & Industries

### Medical & Laboratory

We come from the medical technology sector, speak your language and understand the requirements of the MDR precisely. With us, you will reach your goals efficiently.

Because you need safety, you get bioplastics with compliance to ISO 10993 and ISO 13485 quality management from us.

With BIOVOX, you use renewable raw materials to reduce your carbon footprint by up to 85%.

This is your sign for the change towards more circular economy in laboratory and hospital.

### Pharma

BIOVOX is shaping the future of drug delivery devices and pharmaceutical packaging with materials free of critical substances like BPA, PFAS, and phthalates. Our medical-grade bioplastics help reduce the carbon footprint of your products and packaging by up to 85% over their entire life cycle.

We achieve this by using renewable feedstocks such as biomass, adhering to a rigorous ISO 13485 quality management system, conducting comprehensive biological safety testing for leachables and extractables, and staying at the forefront of polymer and additive research.

The result: 100% patient safety, full regulatory compliance, and minimized environmental impact.

### Hygiene

From toothbrushes and cosmetic primary packaging to plastic housings of bathroom and washroom equipment. Our bioplastics offer high-quality surfaces, with antimicrobial properties if desired, while maintaining a low carbon footprint.

Home or industrial compostable compounds enable additional disposal options. Secondary biomass makes the footprint even leaner and gives you great stories to tell for your marketing.