

Biosuccinic Acid

Going beyond substitution of petroleum-based succinic acid to reach innovative new markets

Succinic acid is a four carbon organic acid with two functional groups - a dicarboxylic acid. Historically, it was known as amber acid and was used until the early 1900's in Europe as a natural antibiotic. Today, succinic acid's main uses are as a chemical and pharmaceutical intermediate and food additive.

BioAmber offers an alternative to petroleum-derived succinic acid as its biosuccinic acid is made from renewable resources. Biosuccinic acid is sustainable and consumes significant amounts of CO₂ in the production process.

With biobased succinic acid now on the market, there is an opportunity to replace petrochemicals in a range of

applications, from polyurethane foams to solvents and non-toxic, renewable plasticizers. BioAmber is actively working with a number of companies in these fields and is seeking additional collaborations.

Biosuccinic can replace petroleum-derived succinic acid and substitute chemicals like adipic acid in applications such as polyurethanes. Biosuccinic can also be used as a starting material for the production of high-volume chemicals such as 1,4-Butanediol (BDO), gamma-Butyrolactone (GBL) and Tetrahydrofuran (THF). Derivatives of biosuccinic acid also include diamines and polybutylene succinate (PBS), a biodegradable bioplastic. BioAmber holds a number of patents and has partnered with many leading

companies to develop applications for biosuccinic acid and PBS.

We are the global leader in biosuccinic with a fully-operational plant in Europe and additional plants to be built in North America and Asia.

Why use BioAmber's biosuccinic acid?

Performs better in many applications than existing petrochemicals

Costs less than petro-based succinic acid and adipic acid

Improves environmental profile

To learn more about how BioAmber's products could help your business, visit www.bio-amber.com



BioAmber is a renewable chemistry company, leading the field in biobased succinic acid. BioAmber's new product platform creates a foundation for customer innovation in a broad range of applications and markets, where biobased succinic acid is cost-competitive and offers superior functionality and performance with a better environmental footprint.

 **BioAmber**
CHEMISTRY INSPIRED BY NATURE