

BioResin: The new industry standard for cost-effective and sustainable proteins and ingredients separation & purification

Medium Well's BioResin, is a bio-based protein and molecular separation alternative to synthetic separation resins and filtration used in food, biotech, and pharmaceutical production. BioResin is produced from agricultural waste and enables cost-efficient, scalable, and sustainable purification of proteins and nutrients.

The Problem

Downstream purification represents up to 70% of production costs in food and biotech ingredients, alternative protein and fermentation-based industries and many novel proteins doesn't reach the market. Moreover, valuable nutrients from byproducts of different industries like dairy and natural beverages, are wasted. Current solutions rely on synthetic, petroleum-based resins that are expensive and non-scalable, or complex filtrations, creating economic and environmental bottlenecks.

Impact



Economic:

Reduces purification costs, improving margins for producers.



Environmental:

Supports novel non-animal-based ingredients; Supports circular use of agricultural by-products; Supports upcycling of ingredients from side-streams; Prevents tons of non-recyclable resin waste annually; Local Production.



Social:

Consumers enjoy lower cost proteins and nutrients.

Market Opportunity

The global downstream and purification market exceeds \$50B, driven by alternative proteins, precision fermentation, and biomanufacturing. BioResin's bio-based and low-cost nature positions Medium Well at the intersection of sustainability and scalability with projected revenues of \$60M by 2030.

Strong & Experienced Team

Shelly Lotan, Co-founder & CEO

Dr. Nir Berdugo, Co-founder & CTO

Dr. Roni Shapira, Scientific Co-founder

Dr. Amir Fine, VP R&D

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BioResin: The Protein Magnet

BioResin is a natural, low-cost, and biodegradable separation media produced from agricultural Byproducts. It mimics the performance of high-end synthetic resins while offering full circularity and dramatically reducing cost and Byproducts.

- High-performance purification
- Circular economy approach
- X20 lower cost than synthetic alternatives
- Validated in protein purification trials
- 2 patents filed

