

Allozymes and Bonumose collaborate to accelerate enzyme innovations

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Allozymes, a leader in protein engineering, and Bonumose, a leader in innovative enzyme combinations enabling the production of high-volume, healthy, naturally occurring monosaccharides from commodity feedstocks such as starch and sugar, announce the preliminary results of improvements to key enzymes for Bonumose's ingredient production process.

Bonumose enzyme breakthroughs include unique combinations converting plant-based starch and other commodities in highly energetically favourable (high yield, high purity) production. Allozymes are optimising key enzymes in the pathway to meet large-scale production specifications. The collaboration includes Allozymes' cutting-edge microfluidics-based protein engineering platform to achieve what was previously thought impossible: analysing up to 20 million enzyme variants daily, delivering superior success rates, and dramatically reducing development timelines for novel enzymes.

"Optimising enzymes for industrial-scale production requires precision, speed, and innovation, and our collaboration with Bonumose exemplifies this," said Akbar Vahidi, Chief Technology Officer of Allozymes. "By leveraging our microfluidics-based protein engineering platform, we have rapidly enhanced key enzymes, significantly improving the process efficiency and scalability. The early results are promising, and we are confident that this partnership will unlock new possibilities in sustainable and cost-effective ingredient production."