

LentiKat's a.s.



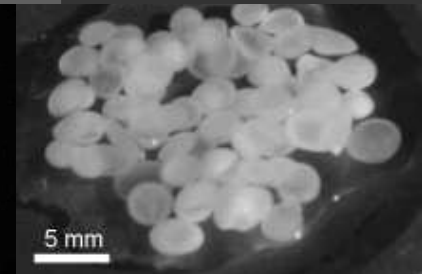
What is a Lentikats Biocatalyst?

Unique shape of the matrix and the original principle of immobilisation enable the encapsulation of free enzymes or microorganisms (bacteria, yeasts, fungi) in a stable porous PVA (polyvinylalcohol) carrier. The carrier advantages are:

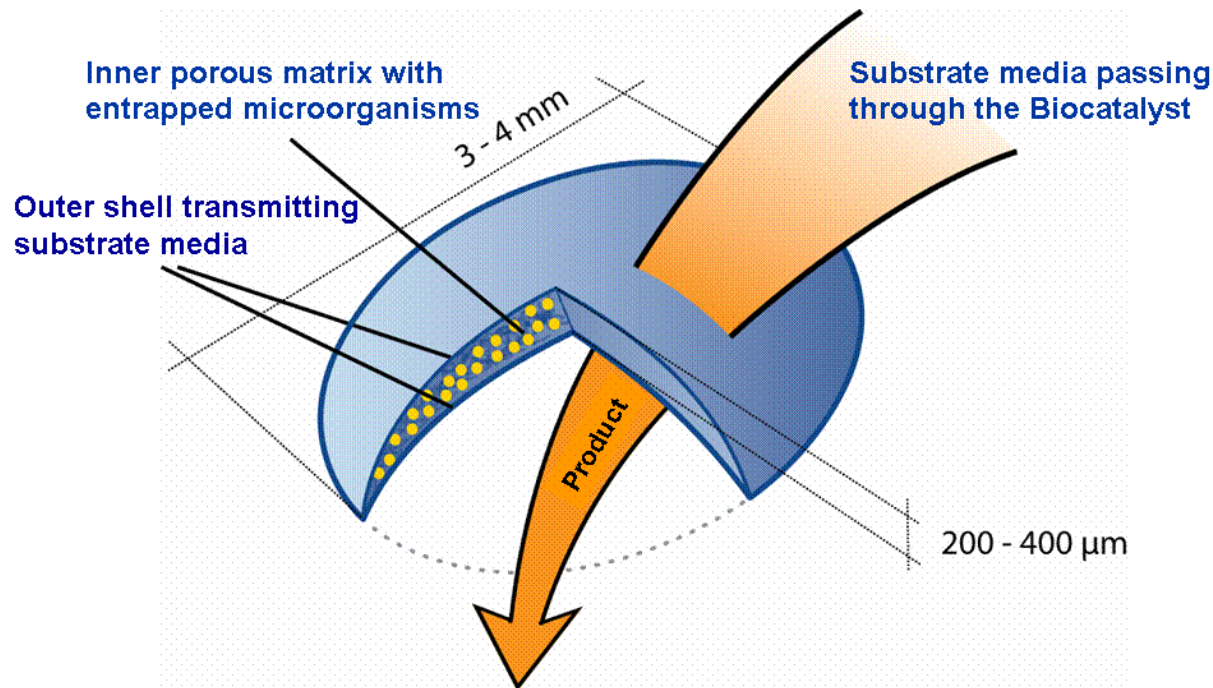
- Excellent physio-mechanical characteristics that provide for long-term mechanical stability
- Low biodegradability
- Zero toxicity

Lentikats Biocatalyst enables easy separation of enzymes and microorganisms from the surrounding media and therefore it can be reused multiple times.

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How does Lentikats Biocatalyst function?



Due to its maximum surface and at the same time minimum volume of the Lentikats Biocatalyst, the diffusion limitations associated with the transport of the substrate into the lens and the product out of the lens are significantly reduced.

Lentikats Biotechnology finds its application in the following fields

- **wastewater treatment** – removal of nitrogen and hardly degradable organic compounds
- **distilleries** – production of bioethanol
- **pharmaceutics** – production of robust biocatalysts
- **food industry** – whey processing, production of special sugars carbohydrates and syrups

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