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(57) Abstract :

The invention discloses a biotechnology process for improved therapeutic enzyme production, integrating microbial strain engineering (101), advanced fermentation unit (102), efficient purification module (103), stabilization system (104), and integrated workflow (105). This process enhances enzyme yield, stability, and reproducibility while reducing costs. It ensures scalable, regulatory-compliant production adaptable to multiple therapeutic enzymes, addressing limitations in conventional methods.

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