TIPQMed

Targeted Improvement of Therapeutic Protein Quality Through Cell Culture Media

Institute for Applied Biotechnology (IAB)

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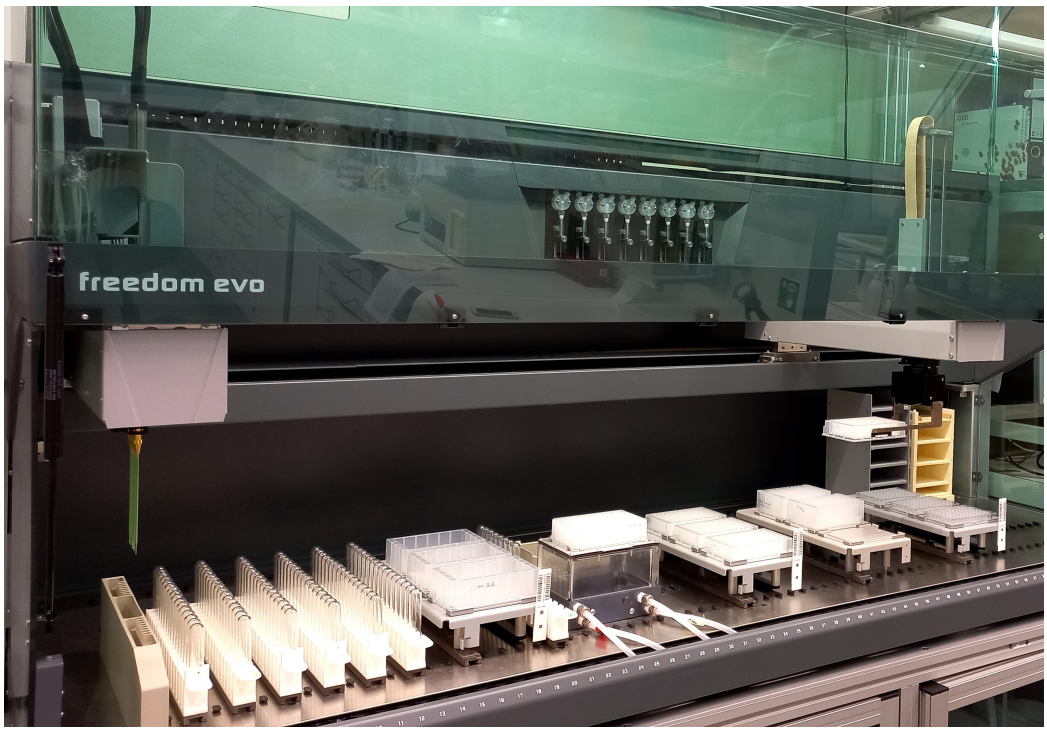
Financing	EU
Program	EUROSTARS
Partners	Florabio Tek. San. ve Tic. A. S. I GlycoMScan B.V. I PAIA Biotech GmbH
Duration	2020 – 2022
Project description	Ensuring the quality of biopharmaceuticals, e.g. antibodies in cell culture production is one of the biggest challenges in the biopharmaceutical industry today. The quality of the product is determined by characteristics named Critical Quality Attributes (CQAs). Protein glycosylation, aggregation and charge variants are some of the important parameters that determine the quality of the product. The CQAs of a recombinant antibody are known to depend on a lot of factors in the cell culture process and which are interconnected. Therefore, finding the right cell culture conditions and the optimal medium composition is a challenge. In this project we aim to develop cell culture media that allow targeted modification of the glycosylation as one of the main CQAs. This will be achieved by systematic evaluation of combinations of cell culture compounds, which have been carefully preselected based on their involvement in metabolic pathways and their impact on glycosylation.



TIPQMed: Platform for high-throughput purification of samples for glycan analysis.

INSTITUT	IAB
PROJEKT	PROmiGlykAN
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