



# UNLOCK PICHIA® Services

With manufacturability in mind

## CUSTOMIZED PROJECT PLANS IN SMALL, MODULAR PACKAGES SUITABLE FOR EVERY INDUSTRY

With manufacturability in mind, VALIDOGEN is addressing today's protein manufacturing needs by early consideration of production strain and process requirements. The individual requirements of different industries including Food & Feed, Biopharma, Diagnostics, and Biotechnology are all considered in our customizable and flexible project setup. Clients from all industries can benefit from our powerful protein production technology platform and modular approach utilizing the most relevant UNLOCK PICHIA® tools for their protein of interest or their field of application.



### PROTEIN EXPRESSION FEASIBILITY STUDIES

Speedy determination of protein expression potential in Pichia



### PICHIA PRODUCTION STRAIN DEVELOPMENT

Generation of high-performance protein expression strains



### BIOPROCESS DEVELOPMENT

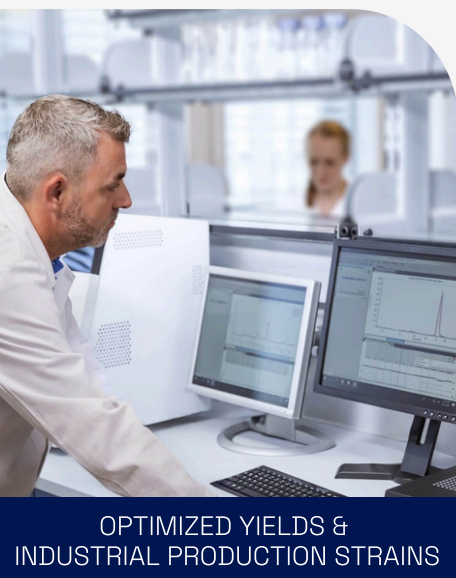
Robust and scalable fermentation & protein purification



## PROTEIN EXPRESSION FEASIBILITY STUDIES

- Fast assessment of expression feasibility and potential for further improvement
- Immediate answers for a reliable go/no-go decision
- Results from micro-scale screening transferable to bioreactor cultivation
- Microbioreactor system to aid comparative strain evaluation
- Rapid generation of protein samples and protein production strains

FAST & RELIABLE ANSWERS



## PICHIA PRODUCTION STRAIN DEVELOPMENT

- Accelerated generation of high-performance expression strains optimized for the production of commercial protein products
- Enhancement of production levels & product quality
- Fast and straightforward production of non-GMP protein samples
- Reduced downstream processing efforts due to low levels of secreted impurities
- Full documentation of toolbox elements to simplify and support your regulatory filings

OPTIMIZED YIELDS &  
INDUSTRIAL PRODUCTION STRAINS



## BIOPROCESS DEVELOPMENT

- Reduced manufacturing costs through optimized VALIDOGEN cultivation protocols
- Scalable, robust, transferable, and cmo-ready manufacturing system
- Intensified processes - high product titer and short cultivation time through methanol-free cultivation system
- Protein purification process development for a robust scalable downstream process
- Full documentation to simplify and support your regulatory filings

SCALABLE FERMENTATION &  
PROTEIN PURIFICATION PROCESSES