

based production processes via increasing raw material and energy efficiency.

effective technologies for fermentative production and downstream processing.







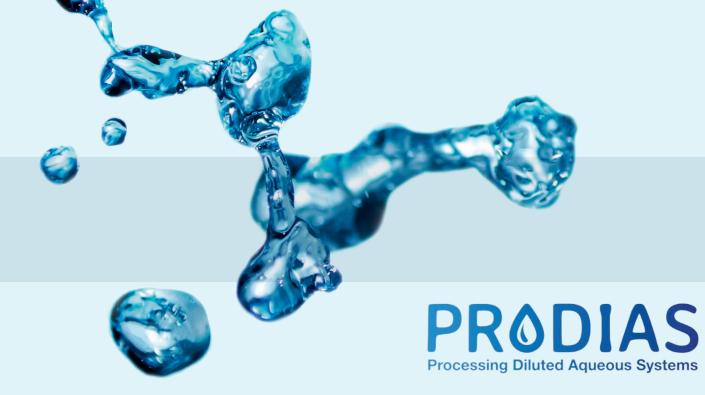












SUCCESS FACTOR: CONSORTIUM PHILOSOPHY

Dedicated to innovation

Multi-beneficiary work-packages combining talents, creativity, expertise, and application orientation.

Trust & cooperation

Transparency and open communication to overcome technical, organizational, and cultural hurdles.

One project - one goal

Mindset focused collective success valuing individual contribution.



PRODIAS partners pushed the limit of concentrating enzymes to above 40% D.S. without measurable activity loss! Thinking "hybrid" the combination of freeze concentration and ultrafiltration led to a cost-effective, novel concentration system.

From lab to pilot

Two-stage freeze concentration plant dedicated for enzyme concentration.



CHEMISTRY LOVES SEPARATION

The consortium succeeded in decreasing energy needs for certain disk-stack separators by 50% compared to standard.

Mother and son

Scalable test centrifuge "Explorer" and a commercial-size equivalent.







Successful transfer

Intensified process implemented in commercial production.



Cargill

PRODIAS teamwork enabled a 25% performance increase in a commercial fermentation process thus saving resources and energy in DSP.



Re-thinking EBA-SMB: PRODIAS developed an efficient apparatus & software combiation allowing for efficient adsorption / desorption process. Result: high purification efficiency from particles containing feed stream.

Bench-top scale-up

Novel EBA-SMB System enables for bench-top scale-up.





PRODIAS: A SUCCESS STORY

Starting in 2015, PRODIAS so far developed 4 demonstrator units (TRL>7) and 6 implemented research standards (TRL>4).



Numerous ideas were born based on PRODIAS findings – exciting work for 2018 and beyond.

Go cross-sectorial qo success!





