

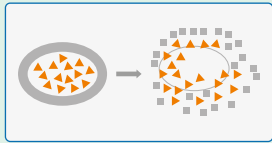
Getting your product at the right purity in a scalable, fully ATEX and economically viable DSP process

Value proposition

For companies who are looking for a partner with a proven track record in scaling DSP/purification processes to help them achieve high-quality commercial products the very first time around, BPF offers extensive lab & pilot scale capabilities and industrial scale experience. Unlike universities, research companies and other scale-up service providers, the BPF team offers true industrial thinking on a smaller scale.

Cell-disruption

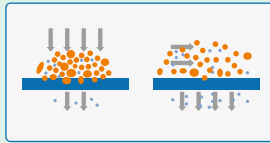
- Homogenisation



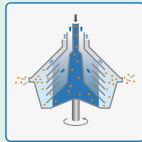
Cell-disruption

Cell removal / clarification

- Filtration
- Centrifugation



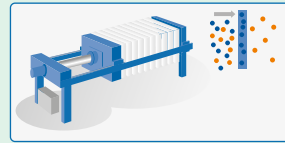
Filtration



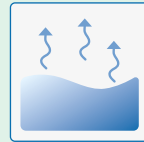
Centrifugation

Concentration

- Evaporation
- Crystallisation/precipitation
- Filtration



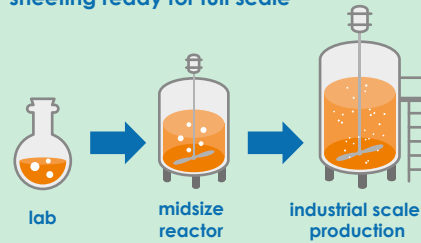
Filtration



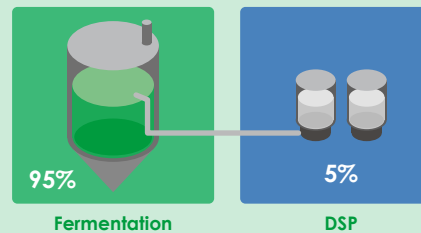
Evaporation

Equipment / piloting scale

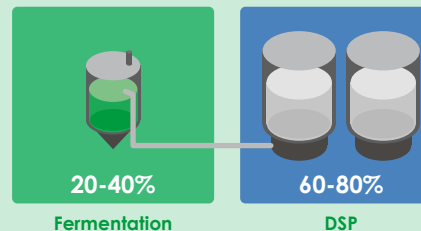
Translation of customer process in flow sheeting ready for full scale



Budget planning perception

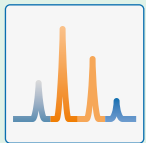


Production commercial reality

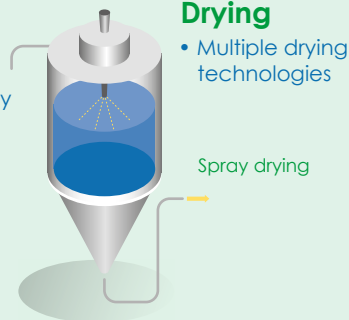


Purification

- Extraction
- Distillation
- Chromatography
- Crystallisation



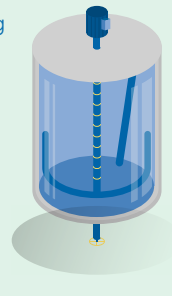
Chromatography



Drying

- Multiple drying technologies

Spray drying



Chemical operations

- Fully equipped glass lined vessels for e.g. classic organic chemistry

Glass lined vessel

BPF's infographics

- 1 Impact of Bioprocess Pilot Facility 2012-2019
- 2 Unlock the potential of your biomass
- 3 Valorization of 1st and 2nd generation sugars
- 4 Benefits of piloting at BPF
- 5 Demonstration and pilot scale production at BPF
- 6 Benefits of Purification / Downstream Processing at BPF
- 7 Food and feed ingredients

BPF's customers come from all over the world:



380,000 hrs experience

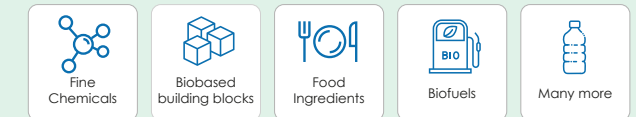
197 Projects executed



15% Public Private Partnership projects
85% Commercial projects

DSP product examples

- Proteins
- Sweeteners
- C5 and C6 sugars (1st & 2nd gen)
- Microbially produced enzymes and small molecules
- Biomass purification
- Biobased building blocks



BPF offers

- Extensive DSP asset base for commercial scale process design and validation
- Hands-on and extensive experience
- Lab, pilot and industrial scale knowledge
- De-risking of your business
- Shortening your time-to-market