

# Benefits of Purification/Downstream Processing at BPF

www.bpf.eu

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**

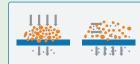
Homogenisation



Cell-disruption

### Cell removal / clarification

- Filtration
- Centrifugation



Filtration



Centrifugation

### Concentration

- Evaporation
- Crystallisation/precipitation
- Filtration

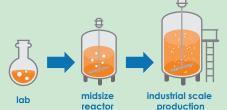


**Filtration** 

Evaporation

# Equipment / piloting scale

Translation of customer process in flow sheeting ready for full scale



# **Budget planning perception**



# **Production commercial reality**



# **BPF's infoaraphics**

- Impact of Bioprocess Pilot Facility 2012-2019
- 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
- W Benefits of Purification / Downstream Processing at BPF
- 7 Food and feed ingredients



420,000 hrs experience





# **DSP** product examples

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











Many more

# **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



- Distillation
- Chromatography







Drying

 Multiple drying technologies

Spray drying





### Chemical operations

 Fully equipped alass lined vessels for e.g. classic organic chemistry

Glass lined vessel