



**activatec**  
biobased ingredients

# About Us



**Activatec develop, design and scale-up technologies to manufacture biobased ingredients and materials from renewable feedstocks**

Activatec has raised €1m in its early stages and we are collaborating with more than 30 European partners which include universities, feedstock suppliers, technology adopters and customers.

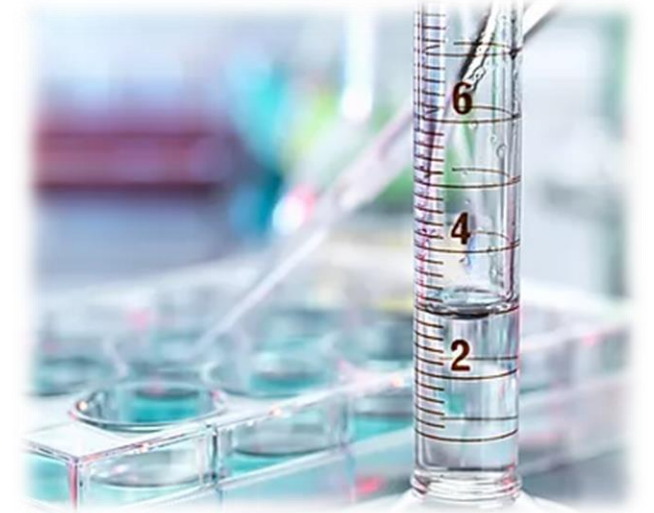
Based in the Biocity, Nottingham (UK)

Activatec is a member of the UK bioindustry clusters:



# What we do

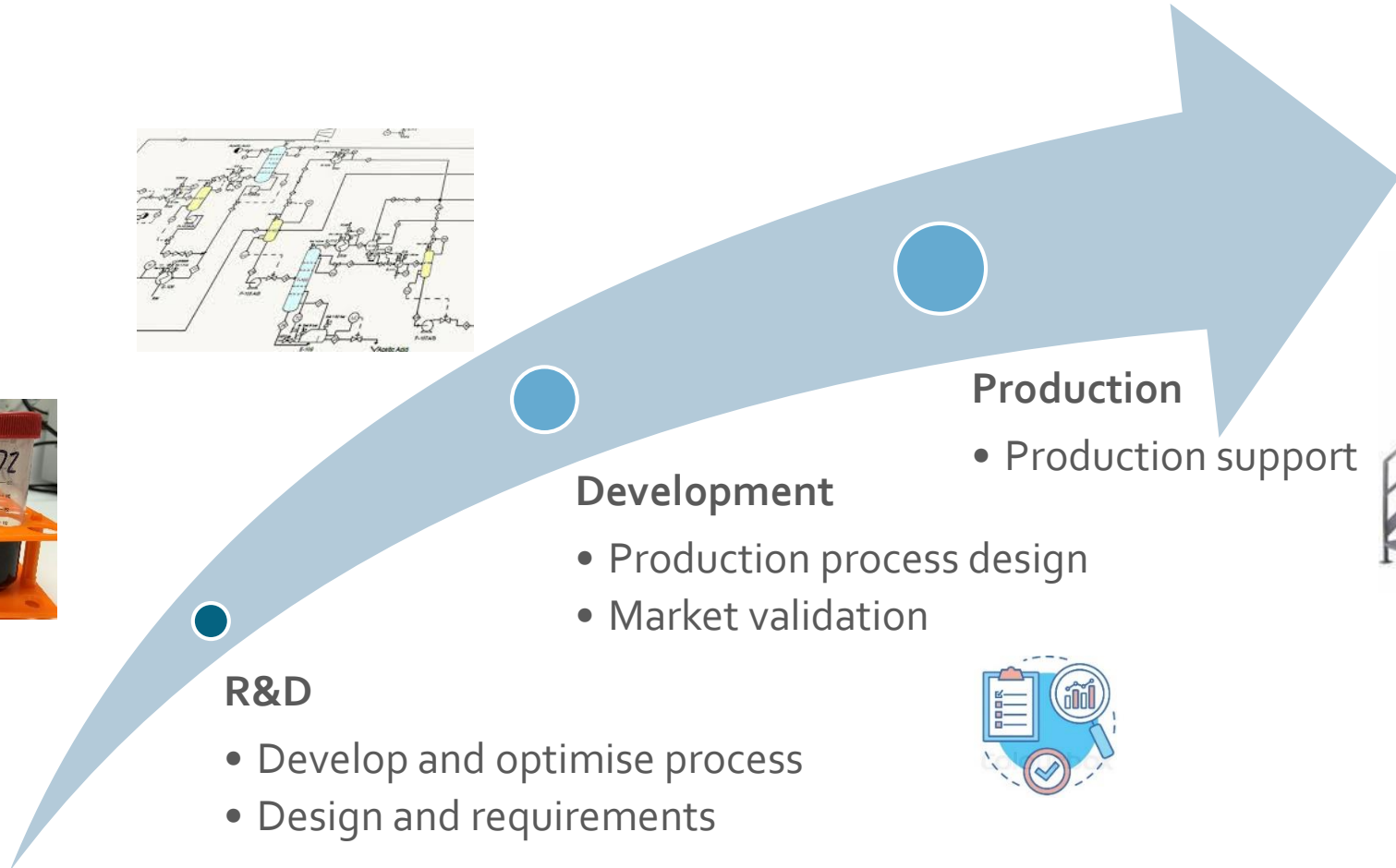
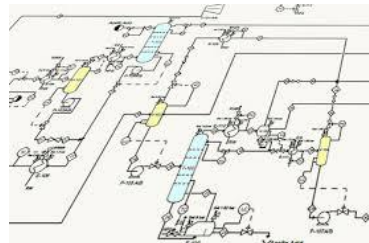
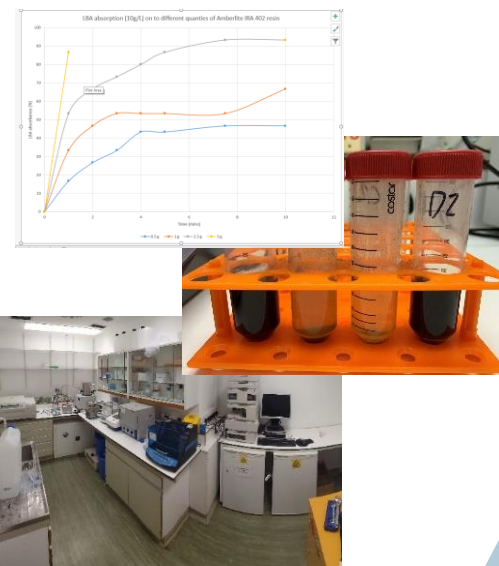
- Technology development
- Scale-up of chemical processes
- Process engineering
- Outsourced research
- State-of-the-art facilities
- Collaborative R&D
- Technical and economic analysis
- Environmental life-cycle assessment



# Products we work on

- Biotech & plant-based ingredients
- Bio-based platform chemicals
- Bio-based materials

# Activatec solutions



## R&D

- Develop and optimise process
- Design and requirements

## Development

- Production process design
- Market validation

## Production

- Production support







# Our feedstocks

- We focus our activities on currently unused and low-value organic sources:
  - Food and animal by-products and waste
  - Biowaste and wastewater
  - Lignocellulose waste
  - Micro- and macro-algae
  - C<sub>1</sub> gases

# Our technologies

- Physical, Biological and Chemical technologies for the production of **Valuable Ingredients and Materials**
  - Hydrolysis, fermentation, biocatalysis, solvent extraction
  - L-S / L-L extraction, Supercritical extraction
  - Centrifugation and filtrations
  - Crystallization, chromatography and adsorption, evaporation, freeze drying



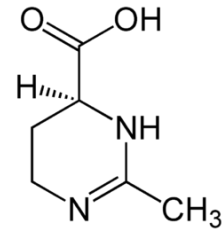
# Activatec solutions: health products, feed and bio-plastics from wastewater and biogas

[www.deep-purple.eu](http://www.deep-purple.eu)

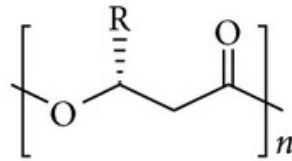


MSW, wastewater,  
sludge, biogas

Ectoine



Poly-hydroxyalkanoates (PHAs)



Bio-based ingredients  
and polymers



Skin  
cosmetics



Health products  
to treat allergies,  
eczema, dry eyes



Animal feed



Bio-plastics



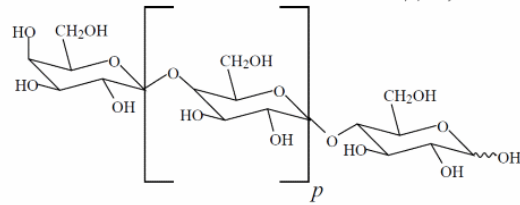


# Activatec solutions: skin care and gut health products from dairy industry side stream

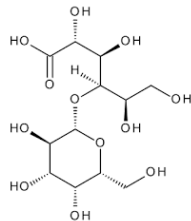


Whey from cheese making

Galacto-oligosaccharides (GOS)



Lactobionic acid (LBA)



Bio-based ingredients



Prebiotics



Infant formula



Skin care products



Drug delivery systems



# Activatec Ltd

## Biobased Ingredients

Thank you

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