



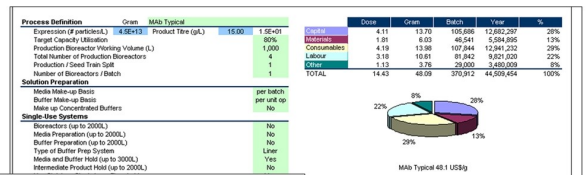
Get Ready for Big Changes in 2011 ...

The BioSolve Suite is Evolving

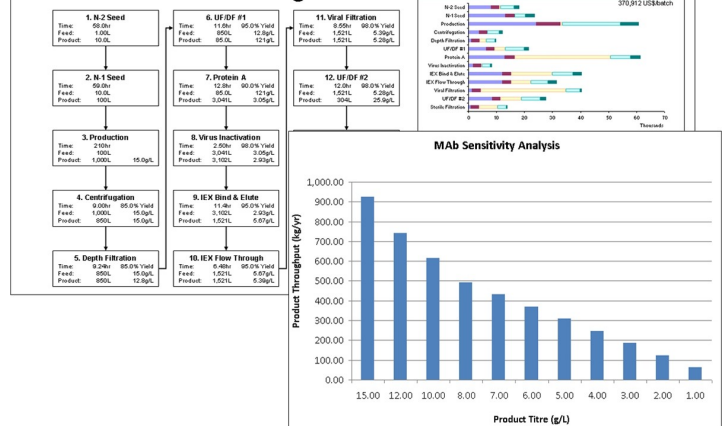
What's new in BioSolve Process v2.0.0

Based upon feedback from the BioSolve User forum we are pleased to announce exciting enhancements, you can now:

- **Export data from BioSolve Process to Add-on templates** for further detailed analysis such as multiproduct scenarios (see below for more details)
- **New capability to model continuous processes** added to the process library
- **Benefit from the annual update to reference costs** which has a greater number of reference sizes to improve cost estimates from BioSolve across a wide range of scales
- **Fine tune the capital estimation method to your own requirements**



Block Flow Diagram



BioSolve Process Add-ons now available

New functionality to export process data in a standard format forms the basis for a range of Add-ons to BioSolve Process:

- **Multiproduct facilities:** understand the impact on cost and utilisation
- **Multicomponent products:** blend the components to generate an overall cost of goods
- **Cost analysis module:** allows you to look at net present value, break even and return on investment

News

See us at the Bioprocess Simulation and Economics on the 13th January in London.

University College London Biochemical Engineering Department have adopted BioSolve Process for their undergraduate and postgraduate teaching programmes.

BioSolve Process focus on capital estimation

Improved capital estimation methods are provided that allows you to customise the methodology to the requirements of your organisation, how?

- Providing a greater range of equipment costs, these can be customised and adjusted by you
- Allowing you to choose the estimation method based on facility footprint and/or capital factors
- Now you can adjust and add your own factors to tailor the estimation method to your requirements

If you would like further details or would like to discuss this further then email us.

Did you know that straight line depreciation could be modelled in BioSolve by setting the cost of capital to a value of 0%?

If you are a user:

Visit our website forum for FAQs, the latest information, to leave your feedback or share experiences.

BioSolve Suite of tools to better understand process and operations

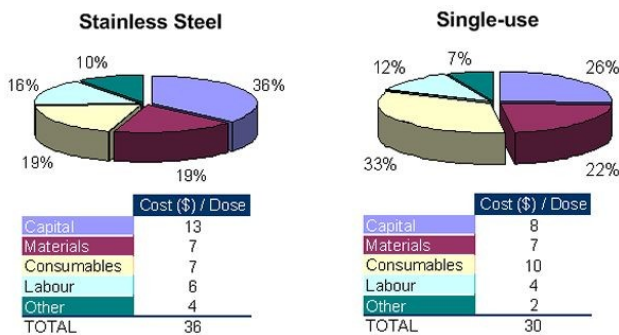


Analysing the process

Providing you with the means to conduct rapid analysis of process/technology options

- Deliver an efficient, cost effective process within process development
- Rapidly assess the capability of a facility for process fit
- Financial analysis for generating the business case for process costs and capital requirements

Providing the format for exchanging cost information within the organisation through standard methods and shared data



It does this by:

- Automated scaling of the process and sizing of resources
- Rapid screening of process options including MAb, vaccines, multi-product
- Rapid evaluation of technologies e.g. single-use vs stainless
- Economic analysis of Cost of Goods
- Provides first pass view on productivity
- Scenario and sensitivity analysis tools

For more details and case studies visit our [website](#)

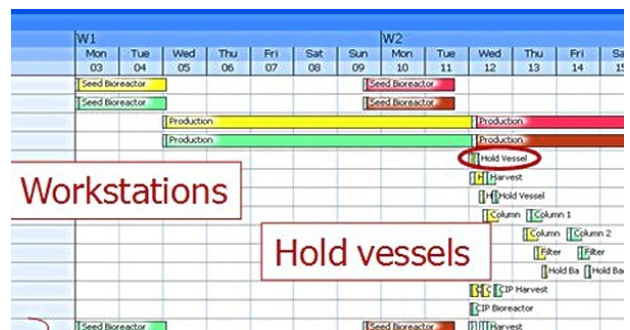


Schedule planning from lab to plant

In complex operational environments BioSolve Real Time tracks actual versus planned performance and allows you to optimise capacity and resources in: **process development, QC laboratories and manufacturing facilities**

- Reduce your risk exposure by managing change before it happens
- Optimise headcount, shift patterns and equipment utilisation

Manage, understand and optimise your process capacity



It does this by:

- Interactive scheduler to visualise the process
- Facility fit analysis
- Bottleneck analysis
- Real time planning for manufacture
- Multiple batches, multiple products
- Parallel operations - multiple suites
- Support activities (QC, buffer prep, cleaning)

For more details and case studies visit our [website](#)