

# Sampling System bioPROBE™ MK1

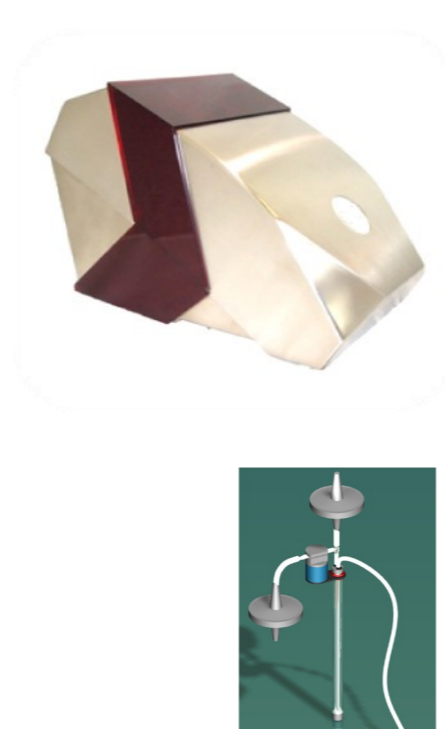
Bioprocess analysis is the most important part of the PAT-Initiative of the FDA. Most of the interesting parameters in any bioprocess can't be observed directly in the bioreactor due to sterilisation by steam or due to high mechanical stress.

External analytical instruments need sterile sampling, small volumes at any time. The **bbi-biotech bioPROBE™ MK1** is world's first really dead volume free sampling system with a disposable sampling probe for any kind of bioreactor.

## bioPROBE™ MK1

consists of

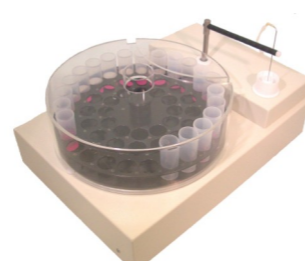
- a control unit
- a sampling probe with fittings for the bioreactor
- a configuration software running on any WEB browser, i.e. Laptops, Netbooks, PDA
- optional accessories for sample storing
- standard or custom software modules for interaction to analytical instruments



- Serves samples to any analytical instrument
- Samples can be taken at any time
- Smallest volumes possible, starting at 0.5 ml, up to 50 ml
- Samples are available from smallest bioreactors
- Stops wasting media and cells
  - no dead volume (no volume wasted in pipes or other parts of the sampling system)
- Stainless steel, glass or disposable vessels and bags can be equipped directly or with bypass solutions
- Supervision with any SCADA system possible
- Supports any process strategy
- Services via WEB software
- Saves your time for process development
- Secures your investment in bioreactors and analytics

bbi-biotech supplies sample storage systems as

- **CoolSam MK1**  
a cooling unit for 12 or 24 vials
- **OrbitSam MK1**  
a system for storing 55 or 83 vials



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