



Biostat® B

Autoclavable benchtop fermenter

“Ready to use”

The Biostat® B is a compact benchtop fermentor with autoclavable culture vessels.

Built-in oxygen enrichment

With vessels having working volumes of 2l, 5l or 10l, the Biostat® B supports both microbial and cell culture applications.

Digital measurement and control

Interchangeable culture vessels

Minimal space requirements

The bioprocess capabilities of the Biostat® B include batch, fed-batch and continuous processes alike.

To support cell culture applications, a full line of accessories

like spinfilters, bubble-free aeration baskets, and gasmix units are available.

The Biostat® B is ready to use right out of the box with probes, built-in pumps, vessel with drive, digital measurement and control and, along with connections to external systems.

The vessels have an integral storage bottle rack for managing acid, base and antifoam before or after sterilization. And, connections between

the base unit and the vessel are located on the side for ease of handling. This design approach helps to keep the space needs low.

The features and quality combine to create an excellent value, making the Biostat® B “the benchtop Standard” worldwide.

- Dual substrate control with setpoint profile
- Multiple cascade control for pO₂
- Full line of cell culture accessories
- Available external analog inputs
- Integrated RS 422 host interface



The base unit contains the temperature system, four configurable peristaltic pumps and a powerful digital control system.

The control hardware is based on our proven DFC (Digital Fermenter Control) circuit board. This microprocessor system is specially designed for bioprocess (fermentation/cell culture) automation. The DFC contains the measurement amplifiers and actuator signal outputs. This approach yields high reliability.

The functionality of the software includes process measu-

rements, automatic calibration routines as well as multiple control loops. The multiphase cascade controller for dissolved oxygen, the two substrate controllers with setpoint profile, and on-line pH recalibration are examples of the system's software.

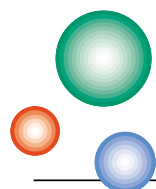
The software has been developed under a quality control system which follows the GAMP (Good Automated Manufacturing Practice) guidelines. This helps guarantee consistency throughout the software's lifecycle. We are continually adding new features.

The ergonomically designed user interface, combined with a proven, function-oriented menu structure, ensures user-friendly operation with minimal training. Easy to learn operation is important in both academic and industrial operating environments.

The Biostat® B is delivered with a goal of being ready to use right "out of the box". Along with the standard complement of vessel accessories, probes, addition bottles and tubing, the external signal connections for a printer (RS 232), host computer (RS 422), two variable speed pumps and two

external amplifier inputs (cell density, redox, etc.) help meet this goal.

For cGMP production environments B. Braun Biotech can optionally provide validation support. Similar to custom systems, we can provide support for the required qualifications (IQ/OQ Tests) and documentation tasks related to the Biostat® B.



- FERMENTORS ■ BIOREACTORS ■ SHAKERS ■
- HOMOGENIZERS ■ CENTRIFUGES ■ FOAM BREAKERS
- PROCESS AUTOMATION ■ CUSTOM PROCESS SKIDS ■
- THERMOREGULATORS ■ COOLING UNITS

QUALITY • TECHNOLOGY • SUPPORT



B. Braun Biotech International
 ●●● sartorius group

Schwarzenberger Weg 73-79 · D-34212 Melsungen
 Tel. +49 (5661) 71-34 00
 Fax +49 (5661) 71-37 02
 e-mail bbi.info@bbraun.com
 http://www.bbraunbiotech.com