

Without measurement there is no control®

BioCapt® Single-Use 100

Microbial Impactor



Lightweight settle-plate replacement for continuous monitoring of critical areas

The BioCapt® Single-Use Microbial Impactor is a lightweight, integrated air sampler designed for use with both portable and remote monitoring systems in remote sampling environments. Its single-use design reduces the risk of false positives and final product contamination associated with microbial sampling, while lowering investigation costs and avoiding non-conclusive results from traditional agar settle plates.

The innovative impactor design combines the media plate and sampling head into a single sterile, ready-to-use unit prefilled with medium, eliminating agar preparation, autoclaving, and stainless-steel head disinfection. Each unit minimizes handling, and the units are packed in a gamma irradiated double bag (one unit single-bagged/two units double-bagged).

The single use impactor uses a radial slit design, validated at the Centre for Applied Microbiology & Research (CAMR), a Health Protection Agency (HPA) at Porton Down. It achieves isokinetic sampling for minimal air turbulence in compliance with ISO 14698-1 and can be used for sampling at 100 LPM.

Potential for handling-related contamination is reduced through a simple process: the impactor is removed from the bag, installed in a portable or continuous monitoring system, and opened for sampling. After sampling, the lid is replaced and the unit is placed directly into the incubator. The lightweight design allows for easy one-handed operation.

BENEFITS

Test ready

- Fully prepared and disposable
- Eliminates agar plate preparation
- Eliminates autoclave sterilization
- Samples efficiently at 100 LPM

False-positive reduction

- Minimizes operator handling
- Eliminates unintended contamination
- Impactors are double-bagged: Each impactor is individually bagged, then two impactors are bagged together and gamma irradiated

Cost reduction and increased productivity

- Easy handling for a plug and play solution
- Eliminates time-consuming and operator-dependent cleaning and process steps like: disinfection, sanitization and sterilization
- Removes uncertainties of non-conclusive results from settling plates
- Reduced number of investigations

FEATURES

- Culture media stability: 12 months
- Storage either at room temperature or under refrigeration (2 - 25 °C)
- Improved lot traceability by use of three-dimensional data matrix
- Compatible with active air monitoring systems
- Extensive validation studies available
- 100% inspection of critical dimensions during manufacturing process
- Leakage test ensuring perfect assembly
- Complies with ISO 14698-1 for highest microbiological and physical efficiencies
- Standard culture media of TSA with neutralizer

APPLICATIONS

- Microbial air sampling monitoring in cleanrooms and associated controlled environments
- USP 797 environmental viable airborne particle testing

BioCapt® Single-Use 100 Microbial Impactor

PARAMETER	SPECIFICATION
Materials	Polystyrene
Air inlets	20 slits, 0.2 mm nominal width
Flow rates	100 LPM
Dimensions	120 mm exterior diameter 38.5 mm exterior height (with lid) 90 mm diameter agar surface
Filling volume	30 ml
Vacuum connectors	Hose Barb, 11 mm OD, 31.5 mm long (includes removable cap)
Standard media	Trypticase Soy Agar (TSA)
Additives	Neutralizers
Packaging	48 units (24 double packs)



NEED MORE INFORMATION? Scan the QR code to connect with our team for guidance



HEADQUARTERS

7477 E. Dry Creek Parkway,
Niwot, CO, 80503 USA
T: +1 303 443 7100

Instrument Service & Support
T: +1 303-443-7100 ext.447

Service and Calibration
E: workorders@pmeasuring.com

Technical Support
E: techsupport@pmeasuring.com

Software or System Support
E: ssupport@pmeasuring.com

Customer Service and Order Processing
E: customerorders@pmeasuring.com

GLOBAL OFFICES

AUSTRIA
T: +43 171 728 285
E: pmsaustria@pmeasuring.com

BELGIUM/BENELUX
T: +32 10 23 71 56
E: pmsbelgium@pmeasuring.com

BRAZIL
T: +55 11 5188 8227
E: pmsbrazil@pmeasuring.com

CHINA
T: +86 400 081 8020
E: pmschina@pmeasuring.com

FRANCE
T: +33 682 991 798
E: pmsfrance@pmeasuring.com

GERMANY
T: +49 351 8896 3850
E: pmsgermany@pmeasuring.com

IRELAND
T: +353 1 295 7373
E: Info.ie@pmeasuring.com

ITALY
T: +39 06 9053 0130
E: pmsrli@pmeasuring.com

JAPAN
T: +81 44 589 3498
E: pmsjapan@pmeasuring.com

KOREA
T: +82 31 286 5790
E: pmskorea@pmeasuring.com

NORDIC
T: +45 7070 2855
E: pmsnordic@pmeasuring.com

PUERTO RICO
T: +1 786 564 3356
E: pmspuertorico@pmeasuring.com

SINGAPORE
T: +65 6496 0342
E: pmssingapore@pmeasuring.com

SWITZERLAND
T: +41 71 987 01 01
E: pmsswitzerland@pmeasuring.com

TAIWAN
T: 886-3-5525300
E: pmstaiwan@pmeasuring.com

UNITED KINGDOM
T: +44 (0)1733 454 207
E: Info.uk@pmeasuring.com



BioCapt® is a registered trademark of Particle Measuring Systems, Inc. All other trademarks are the property of their respective owners. Particle Measuring Systems, Inc. reserves the right to change specifications without notice. © 2026 Particle Measuring Systems, Inc. All rights reserved. 05202026