

Without measurement there is no control®

BioCapt® Single-Use 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 is supplied gamma-irradiated and double-bagged, with three units per package.

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 25 - 50 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
- Samples efficiently at 25 or 50 LPM

False-positive reduction

- Minimizes operator handling
- Eliminates unintended contamination
- Each set of three samplers is double-bagged and gamma irradiated

Cost reduction and increased productivity

- Higher quality assurance through continuous monitoring (up to 4 hours)
- Eliminates time-consuming and operator-dependent steps such as disinfection, sanitization, and sterilization
- Eliminates uncertainty from settle plate results
- Risk reduction during the introduction and withdrawal of microbiological sampling plates in sterile production areas

FEATURES

- Culture media stability validated up to 12 months
- Storage at room temperature or under refrigeration
- Improved lot traceability with three-dimensional QR codes
- Compatible with active air monitoring systems
- Extensive validation studies
- 100% inspection of critical dimensions during manufacturing process
- Leakage test ensuring perfect assembly
- Complies with ISO 14698-1 for highest microbiological and physical efficiencies
- Proven recovery of microorganisms under stressed conditions after 2 hours of continuous air sampling (25 LPM flow rates)
- Standard culture media of TSA and SDA

APPLICATIONS

- Microbial air sampling monitoring in controlled environments
- USP 797 environmental viable airborne particle testing
- Microbial monitoring of critical control points in aseptic manufacturing areas (Isolators, RABS, ISO 5/Class A)

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PARAMETER	SPECIFICATION
Materials	Polystyrene
Air inlets	20 slits, 0.1 mm nominal width
Flow rates	25 - 50 LPM recommended
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 and 31.5 mm long (includes removable cap)
Standard media	Trypticase Soy Agar (TSA) or Sabouraud Dextrose Agar (SDA). SDA is available only with neutralizers.
Additives	Neutralizers Neutralizers and Lactamator(R): for the inactivation of a wide range of beta-lactam antibiotics.



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



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