

BioCapt® Single-Use 100

Microbial Impactor

Lightweight settle-plate replacement for continuous monitoring of critical areas

Without measurement there is no control

The BioCapt® Single-Use Microbial Impactor is a lightweight, integrated air sampler designed to be used with both portable and remote monitoring systems in remote sampling settings. The impactor eliminates the risk of false positive results and final product contamination from microbial sampling interactions, while decreasing the cost of investigations. The single use sampling head enables manufacturers to monitor their full process, eliminating the risk of non-conclusive results by settle plates. The innovative design is a combination of media plate and sampling head into a single unit. This unique solution eliminates the handling risk, costs, and complications related to autoclaving and stainless steel head disinfection.

It is a sterile, ready-to-use unit already filled with medium, eliminating agar plate preparation and minimizing operator handling. 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.

Operation is made easy by following three steps: (1) remove the single use impactor unit from the bag, (2) install it in a portable or continuous monitoring system, and (3) take off the lid. After replacing the lid once sampling completes, the single use impactor is directly placed into an incubator. Due to its design and weight, it can be handled easily with one hand.

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



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Specifications

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)



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