SKC BioStage

Single-stage viable cascade impactor for bacteria and fungi on agar plates, 28.3 L/min



The BioStage collects airborne bacteria and mould for culture. A high flow pump draws air through a 400-hole impactor stage, and the micro-organisms land on the agar plate below. The SureLock seal closes the impactor without spring clamps, so no air leaks past the sample. After two to five minutes the plate goes to a qualified laboratory.

28.3 L/min	0.6 µm	400	0.25 mm	2–5 min
Flow rate	Median cut-point (D50)	Holes in the jet stage	Hole diameter	Sampling time

Performance

Flow rate	28.3 L/min
Jet classification stage	400 precision-drilled holes (jets), 0.25 mm diameter
Median cut-point (D50)	0.6 µm
Equivalence	Same 400-hole jet stage as the Andersen N-6 and similar samplers Studies show performance equivalent to the Andersen N-6
Sampling time	Two to five minutes per agar plate
Collected organisms	Remain intact and viable

Mechanical

Inlet cone and base plate	Precision-tooled aluminium; corrosion-resistant and autoclavable
O-rings	Duro 50, BUNA-N; not autoclavable
Seal	SureLock positive seal; no spring clamps that wear out or fail Prevents air leaks; needs minimal maintenance
Sample media [3]	Standard-size agar plates, 90–100 mm
Outlet	Barbed outlet for 1/4 in ID tubing to the vacuum pump
Mounting	Threaded hole in the base plate, for a mounting bracket on the QuickTake 30 or a tripod stand

Compliance

Methods	Meets NIOSH Method 0800 and 0801 requirements
Recommendations	Meets the recommendations of the American Conference of Governmental Industrial Hygienists (ACGIH) for bioaerosol sampling

Media and analysis

Bacteria	Tryptic soy agar (TSA); blood agar plates (BAP)
Fungi, viable	Potato dextrose agar (PDA); malt extract agar (MEA); dichloran glycerol 18 agar (DG-18); corn meal agar (CMA)
Analysis	Colony culture, by a qualified laboratory

Applications

Air quality	Indoor air quality (IAQ) studies; filter and cleanroom efficiency studies; hospital environments
Production	Pharmaceutical production; brewery fermentation; food processing areas; cosmetic manufacturing
Other	Animal care laboratories; sewage treatment plants; grain processing and transportation; bio-risk response

Sampling

1 Load	Seal an agar plate inside the BioStage
2 Connect	Connect the outlet to a pump running at the flow rate above
3 Sample	Sample for two to five minutes
4 Analyse	Take out the agar plate and send it to a qualified laboratory

Impactor and pump kit

Order code	Description
225-9611	BioStage single-stage impactor
228-9530K	BioStage pump kit, QuickTake 30 pump (notes 1, 2)

Order from Analyt-MTC with the order codes.

Accessories

QuickTake 30 sample pump, rotameter and charger, 100–240 V	228-9530A
Calibration adapter for the BioStage	P33100
Tripod stand	228-506
Mounting bracket for the QuickTake 30	228-9531

Notes

1. The QuickTake 30 sample pump contains Li-ion batteries and is subject to special shipping regulations.
2. Do not operate or charge the QuickTake 30 in hazardous locations. It is not UL listed for intrinsic safety and not CE marked.
3. The microbiological media come from analytical laboratories.

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