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### **ADVANTAGES**

- ✓ Three tangential nozzles eject particles at an angle to the inner wall, reducing particle bounce and preserving microorganism integrity.
- ✓ Swirling liquid collection method minimizes reaerosolization and gently entrains bioaerosols to preserve viability.
- ☑ For highest efficiency, use with non-evaporating collection liquids that have a higher viscosity than water, such as ViaTrap® mineral oil.‡
- ☑ When used with ViaTrap, collection efficiency stays constant over an 8-hour sampling period.
- ☑ Complete glass construction allows easy cleaning, sterilizing, autoclaving, and reuse.
- ☑ Samples are suitable for five different analyses. *See above left.*

## **BioSampler**

### Collects Bioaerosols into Liquid for Maximum Viability

- ldeal for airborne bacteria, fungi, pollen, viruses, endotoxins, mycotoxins, and other fragments
- **■** Constructed of quality glass autoclavable
- Collection method ensures high rate of microorganism viability
- Extends sample time to over 8 hours with ViaTrap liquid
- Overcomes sampling problems with impinger samplers
- Inlet limits collection of particles to those that would pass through the human nose

The BioSampler® is a highly efficient glass collection device used with a high-volume sonic flow pump to trap airborne microorganisms for analysis. Externally, BioSampler resembles an All-Glass Impinger (AGI-30); internally, BioSampler is specially designed to reduce particle bounce and maintain maximum viability.

Sample Time:	Up to 8 hours
Sample Rate:	Sonic flow through BioSampler
	nozzles (12.5 L/min)
Sample Pump:	BioLite <sup>±</sup>
Sample Media:	Non-evaporating liquids,
	ViaTrap <sup>‡</sup> recommended
Tubing:	1/4-inch ID and 3/8-inch ID



Cat. No.

Qtv.

## APPLICATIONS

- Indoor air quality investigations
- Hospitals and veterinary clinics
- · Agricultural dust studies
- Research

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- Public building investigations
- Food handling industry
- Pulp and paper mills and wastewater treatment plants

#### **Biosampler Analysis Options**

- Growth Culture quantifies/characterizes airborne bacteria and fungi.
- Microscopic enumerates total airborne bacteria and fungi (provides limited identification).
- Biochemical Assay quantifies biological compounds based on reaction to a chemical.
- Immunoassay quantifies airborne allergens based on antibodies binding to a specific target antigen.
- Polymerase Chain Reaction (PCR) identifies bioaerosols by screening for a specific genus or species. May require sterile water as collection liquid; check with laboratory.

For a list of microbiological laboratories, visit skcinc.com/lab.

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20 ml	225-9595	ea		
20 ml	225-9595K4	4		
5 ml	225-9593	ea		
20 ml	225-9596	ea		
5 ml	225-9596A	ea		
BioSampler Mini Kit includes 1 BioSampler, two 20-ml collection vessels (bottoms)				
with caps, 1 BioSampler case with mounting rod, and 1 ViaTrap <sup>‡</sup> (120 ml)		ea		
120 ml	225-9598A	ea		
500 ml	225-9598	ea		
950 ml	225-9599	ea		
sorbent, see p. 70 for sorbent Cat. No. 225-22-02		ea		
	20 ml 5 ml 20 ml 5 ml ottoms) 120 ml 500 ml	20 ml 225-9595K4 5 ml 225-9593 20 ml 225-9596 5 ml 225-9596A ottoms) 225-9597 120 ml 225-9598A 500 ml 225-9598 950 ml 225-9599		



‡ May not be suitable for PCR analysis; check with laboratory

Description

## **Complete BioSampler System**

Efficient Collection of Bacteria, Fungi, and Viruses

- Includes all equipment and media for bioaerosol sampling
- Portable sonic flow pump
  - Maintains ≥ 15 inches mercury downstream pressure
  - No additional critical orifice needed when used with BioSampler
  - Includes protective housing with handle, vacuum gauge, and valve
- **■** Mounting rod secures BioSampler to case

#### Sampling with the BioSampler

The BioSampler is operated with a sonic flow pump, such as the BioLite, that can maintain ≥ 15 inches mercury or 0.5 of an atmosphere of downstream pressure in the system. The BioSampler's three nozzles act as critical (sonic) orifices, each permitting 4.2 L/min of ambient air to pass through for a total flow rate of approximately 12.5 L/min.





BioLite				
Sample Pump				
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The portable BioLite Sample Pump is ideal for use with the BioSampler. BioLite provides non-compensated airflow up to 62 L/min or sonic flow. The BioSampler acts as a critical orifice for sonic flow without additional orifices. BioLite features mounting points on either side, allowing two BioSamplers to be attached and operated concurrently at a total flow rate of 25 L/min at 15 inches Hg back pressure.

#### BioLite Sample Pump

Includes protective housing with handle, vacuum gauge, and valve, supplied without orifices or rotameter, AC operation only, weighs 16 pounds (7.25 kg)

Cat. No. 228-9615...... 115 V Cat. No. 228-9620...... 230 V

Description	SKC Inc. Cat. No. 115 V	SKC Ltd. Cat. No. 230 V
<b>Deluxe BioSampler System</b> includes 1 BioSampler, 2 additional 20-ml collection vessels with caps, 1 case with mounting rod, 1 ViaTrap* (120 ml), 1 BioLitė pump, tubing/adapters, and rotameter	228-9615KD	228-9620KBD
Basic BioSampler System includes 1 BioSampler, 1 additional 20-ml collection vessel with cap, 1 mounting bracket, 1 BioLite pump, tubing/adapters, and rotameter	228-9615K	228-9620KB

liquid-based airborne microorganism sampling.

\* May not be suitable for PCR analysis; check with the laboratory

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