

**the most uniform  
slit sample trace  
in the industry.**



Laminar Flow Venturi allows for  
the most uniform slit sample  
trace in the industry

Patented Design

Higher Collection Efficiency Than  
Other Slit Impactors

Inner Wall Sampling Attachments  
Available

No Luer Adapters Necessary -  
tubing fits directly onto cassette

Compatible with all portable  
pumps designed to fit  
competitors cassettes

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Micro5



Allergenco-D



ems E-6



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BioSis



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ems Dust Collector Kit



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# AllergencoD

disposable air sampling cassette



Patented Laminar Flow Venturi  
design allows for the most uniform  
slit sample trace in the industry.



## Allergenco-D

The Allergenco-D sampling cassette was developed for the sampling and collection of aeroallergens and bioaerosols for quantitative analysis of mold spores, pollen, skin fragments, insects, combustion particles, toners, environmental dusts, construction dusts and other airborne particulates. The Allergenco-D employs a patented laminar flow venturi which provides higher readable collection efficiency as well as a more well defined impaction trace, helping to reduce analysis time.

## Calibration

The Allergenco-D is designed to operate at a standard flow rate of 15 lpm. Higher or lower flow rates are possible but may require adjustment to the sampling duration to prevent over and under loading, respectively. Pump calibration should be conducted prior to the start of sampling protocol. A variety of devices/adapters are available to help simplify the calibration process.

For traditional high volume vacuum pumps, connect the vacuum source to a calibrated rotameter. Connect the rotameter to the bottom of the Allergenco-D cassette. Turn the vacuum source on and adjust the flow valve on the pump to achieve required flow rate.

## Pump Connection

The Allergenco-D was designed to be compatible with traditional vacuum pumps as well as most portable units. The Allergenco-D has been designed with a universal vacuum connection. This feature allows the connection to a vacuum source with either a 1/2" to 1/4" converter or directly to 1/4" I.D. tubing.

## Sampling Procedure

Before starting any sampling procedure establish a sampling strategy for the environment being studied. The Allergenco-D sampling cassette was designed to operate at flow rates from 5 to 20 lpm for durations ranging from 1 to 20 minutes. These rates are dependent upon the environment being studied.

- Remove the BOTTOM "Quality Seal" from cassette. Retain to re-seal once sampling is completed.
- Attach the vacuum supply to the BOTTOM of the cassette. (Tubing fits directly onto cassette. No luer adapters are necessary.)
- Place the Allergenco-D cassette in the area of interest. Remove and retain the TOP "Quality Seal".
- Turn on your calibrated vacuum source and conduct the sampling strategy according to the environment being studied. (See "SAMPLING INTERVALS".)
- Replace "Quality Seal" to the TOP of the cassette. Remove the cassette from the vacuum source. Replace "Quality Seal" to the BOTTOM of cassette.
- Document the sample location & cassette serial number.
- Store appropriately and analyze using standard protocols. (Call 800.293.3003 for a participating laboratory list)

## Inner Wall Sampling Procedure

An optional wall sampling adapter can be obtained for the Allergenco-D sampling cassette. This adapter will allow the identification of inner wall contamination

- Make a 1/4" diameter hole through the wall in the area of interest.
- Place the wall adapter over the entrance on the top of the Allergenco-D cassette. Push firmly so that a good seal is obtained.
- Insert the wall adapter tube into the hole up to the point where the o'ring on the tube makes contact with the wall.
- Follow the sampling procedure as outlined above.

## Sampling Intervals

Environmental Conditions / Flow Rate 15 lpm

### Outdoor sample

1-10 minutes

### Dust free environment (clean office)

5-8 minutes

### Indoor environment - occupied space

3-5 minutes

### Indoor environment - excessive dust

1-3 minutes

### Inner wall sampling

1-5 minutes

### Temperature and Storage Conditions:

Storage: 50 - 80 degrees Fahrenheit  
DO NOT USE IN TEMPERATURES BELOW 32 DEGREES FAHRENHEIT!

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disposable air monitoring cassette

