

Why Micro5?

SAVE TIME
5 minute samples

SUPERIOR COLLECTION EFFICIENCY
d50 <1.0um – Best in the industry

2X QUALITY SEAL
Quality inspections during manufacturing
& field testing

BETTER SAMPLE TRACKING
Barcoded serial number

FIELD NOTES
Add sample location, dates and time to
label band

"SAMPLE COMPLETE DOT"
Quick differentiation of unused and
completed sample cassettes



5liters 5minutes
Save Time & Money

World Journal of Aerosol Science

confirms ems circular impactors collect
the widest range of contaminants.

The decrease of the jet-to-plate distance
(in the EMS circular jet impactors) results
in a critical decrease of the impactor's
cut-off size: from about 2.5 microns of the
widely used slit impactors to about 1
micron. This makes such an impactor
efficient for collecting spores of ALL fungal
species and even some bacterial species.



-World Journal of
Aerosol Science

please call for a
complete copy
of the study.



Toll Free: 1.800.293.3003
www.emssales.net

Micro5

AIR SAMPLING CASSETTE



the
Next Generation
of Spore Traps

Micro5

Environmental Monitoring Systems is proud to bring you the NEXT GENERATION OF SPORE TRAPS. Utilizing a 360-degree impaction chamber, the **Micro5** was pioneered to evenly & quantitatively collect aeroallergens such as pollens, mold & fungal spores, fibers, dander, insect components and other air-borne contaminants. The **Micro5** MicroCell is designed to operate at a flow rate of **5 Liters** per minute to ensure optimal collection efficiency.



Disposable, convenient and easy to use, we are honored to bring this technology to your industry.

Sampling Procedures

Air sampling pumps capable of a calibrated flow of 5 liters per minute through the cassette, can be utilized. Sampling is recommended at breathing zone height.

1) Remove black pin from the bottom of the Micro5.

2) If using a conventional high volume pump:

Simply connect one end of tubing (5 feet or less) to the bottom of the Micro5. No adapters are necessary.

Proceed to step 3

OR If using a low volume pump: Simply attach the cassette directly to the pump or through a 1" piece of tubing to the bottom of the Micro5.

Proceed to step 3

3) Peel back the "2X Quality Seal" and attach temporarily on the side of the cassette during sampling.

4) Turn pump on and sample for 5 minutes, depending on environment (See "Sampling Intervals")

5) When sampling is completed, replace the black pin in the bottom and re-attach the 2X quality Seal to the top of the Micro5.

6) Record field notes in the blank area of the banding label.

7) If desired, adhere the "Sample Complete Dot" to the 2X Quality Seal.

8) Send the Micro5 cassette for laboratory analysis.

Sampling Intervals

Environmental Conditions / Flow Rate 5 Lpm

Outdoor / Indoor Clean Environments

8-10 minutes

Indoor (Normal Activity) 5 minutes

Indoor (Heavy Particulates) 1-3 minutes

Temperature and Storage Conditions:

Storage: 50 - 80 degrees Fahrenheit

DO NOT USE IN TEMPERATURES BELOW 32 DEGREES FAHRENHEIT!

Laboratory Benefits

Saves Time and Laboratory Resources

Ease & Speed of Reading – the ~2.3mm diameter sample trace contains ~ 25 fields for 100% analysis at 400X or 150 fields for 100% analysis at 1000X. As low as 15% analysis, correlates well with 100% analysis.

Tracking – Barcoded Serial Numbers allow for automated input of sample numbers into laboratory software (LIMS) and chain-of-custody forms.

Uniform Trace – Deposition of particles/spores onto the adhesive is uniform in all directions due to the design of the spore trap.

Call 800.293.3003 to receive a complete Lab Packet containing the protocol for reading the Micro5.