

Zefon Air-O-Cell™



Zefon Air-O-Cell™ is a linear spore trap with an impaction trace similar to the Allergenco D™. Like other spore traps, it is used for the collection of airborne bio-aerosols including fungi, pollen, and particulates. Spore traps are appropriate for air sampling at the beginning of an investigation to set a baseline and as a final check for clearance sampling. They can also be used for monitoring during the remediation process. A suitable pump, capable of drawing 15 liters of air per minute, is attached to the cassette that contains a slide where the impaction trace is formed. The cassette is sent to the lab, where it is disassembled and the slide is stained and examined. Sampling times depend upon the environment being sampled. The table below has suggested times for various environmental conditions.

Suggested Sampling Times		
Environment	Flow Rate	Duration
Outside	15 lpm	5 minutes summer, all other times 10 minutes
Clean Room	15 lpm	10 minutes
Indoor – occupied	15 lpm	5 minutes
Basement or dusty room	15 lpm	3-5 minutes
Wall Cavity	15 lpm	Less than 1 minute

Procedure

- Remove the seal from the bottom of the cassette and retain to reseal when sampling is complete.
- Attach either a ¼ inch or 3/8 in tubing to the bottom of the cassette, coming from a calibrated pump that has a rotometer adjusted to 15 L.
- Remove the seal from the top of the cassette and retain to reseal when sampling is complete.
- Turn on the pump and record the amount of time that air is drawn through the cassette. Turn pump off after the time has expired.
- Disconnect pump and reseal cassette.
- Mark cassette with appropriate sample information and record on the Chain of Custody.
- Store cassette in a dry area, away from the sun until delivered to the laboratory.

