

Burkard™



Burkard™ is a linear spore trap machine that is used for the collection of airborne bio-aerosols including fungi, pollen, and particulates. It is different than most recently designed systems in that the slide is put directly into the pump rather than being imbedded in a cassette. The slide is first coated with Gelavitol or an equivalent material. After it is exposed to the sampled air, the slide requires careful handling while being transported to the lab.

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

Procedure

- The slide will need to be greased with Gelvatol or appropriate vacuum grease that will allow the laboratory stain to adhere to it. It may be possible to purchase pre-made slides.
- Be very careful not to touch any of the greased area of the slides.
- Feed the slide through the slit in the pump.
- Mark slide with appropriate sample information and record on the Chain of Custody.
- Place slide in slide case and do not allow slides to touch each other. Store slide in a slide case in a dry area, away from the sun until delivered to the laboratory.



Fungal spores under the microscope