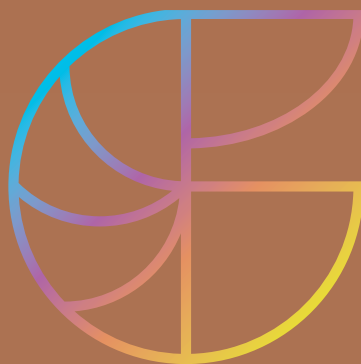




GENICS

Bioaerosol Sampler Deployment Guide

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What's Included

- Bioaerosol sampler with internal sample matrix
- Hanging strap (releasable zip-tie loop)
- Protective 50 mL collection tube with orange screw cap

Before Use

- Keep the sampler sealed in the tube until deployment to avoid contamination.
- Operate in a clean environment. Handle only the outside surface of the sampling tube.

Installation in the Field



Choose a location with good air movement — near prevailing wind, fans, or aerators to optimize airflow across the matrix.



Use the zip-tie loop threaded through the lid to hang the sampler on a pipe, wire, or post near the production area. Ensure the sampler is securely mounted by tightening the zip tie.



Once in position:

- Unscrew the lid of the sampler,
- Gently remove the outer plastic tube, leaving the filter insert hanging freely,
- Use the orange screw cap to seal the now-empty collection tube for later reuse.

Sampling Duration



Leave samplers in place for 24 to 48 hours to collect bioaerosols.



Avoid disturbing the area or exposing the filter to direct physical contact during this time.

After Sampling

STEP 1

Open the empty 50 mL collection tube that originally housed the sampler. Retrieve the sampler without touching the white sample matrix — simply screw the tube onto the lid until it is securely closed.

STEP 2

Release the sampler by undoing the zip tie, then collect the sealed tube containing the sampler and the attached zip tie. Label the tube clearly or attach a barcode/sample ID.

Post-Collection Ethanol Treatment

Once all samplers are collected and labelled (away from animals):



Unscrew the cap and remove the insert (handle only by the black holder).



Spray the matrix thoroughly with $\geq 70\%$ ethanol (96–100% is also acceptable) until visibly wet.

Packing for Transport



Place each sampler (tube with insert) into a separate plastic bag with a paper towel.



Group all samples from a single site into one large plastic bag or secondary container.



How to ship samples to Genics: <https://www.youtube.com/watch?v=UWB27jYbkw>

