

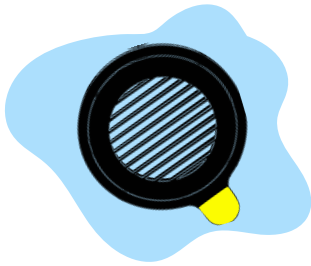


eEquip filter kit

User memo



PATENT PENDING



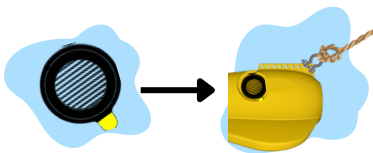
eEquip filter kit provides a simple and reliable solution for eDNA sample collection and preservation. Compatible with eEquip underwater sampling devices, Quad samplers, and other in situ sampling systems (contact Sequench to confirm compatibility with your sampler).

! Important

- Wear gloves when handling filters and avoid touching the membrane
- Keep the storage bag sealed until deployment and during sampling
- Use an appropriate preservation method to maintain eDNA integrity

Sampling workflow

1 DEPLOY



- Remove the filter unit from the pouch
- Insert the filter unit into the sample mount of the sampling device
- Commence sampling according to the device operating guidelines

2 RETRIEVE



- Remove the filter unit from the mount using the integrated holding lip.
- Gently shake off excess water

3 PRESERVE

A. Desiccation (Default)



- Place the filter unit back into the desiccation pouch
- Seal the bag securely
- Store until laboratory processing

OR

B. Direct buffer preservation



- Transfer the membrane into a tube containing preferred preservation buffer immediately after retrieval

OR

C. Freezing



- Store the filter unit directly in the sealed storage bag at -20°C

Enhanced field preservation option with a buffer spray and desiccation (recommended for sensitive targets)



For improved eDNA recovery, particularly when:

- Extended storage prior to processing is expected
- Targeting low-abundance or degraded DNA (e.g. fish, vertebrates)

Buffer spray supplied as a 10 mL spray bottle (≈ 25 filters)

- Apply 4 sprays directly onto the exposed side of the filter after retrieval and before placing into the desiccation pouch



eEquip filter kit specifications

- Operational temperature (ambient): 0 to 40°C
- Package size: 120×210 mm
- Filter membrane material: Nylon
- Filter membrane diameter: 47 mm

- Filter pore size: $5 \mu\text{m}$ or $20 \mu\text{m}$
- Sterilisation: clean-room assembly (not gamma sterilised)
- Storage (dry): room temperature
- Recommended shelf life (unopened): 2 years

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No soaking in
bleach or other
harsh chemicals



Don't store
under direct
sunlight

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