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eDNA sampling kit

Analysis of biodiversity with environmental DNA (eDNA)

Measurement of eDNA for mapping and quantification of biodiversity in water is increasingly being used. NIRAS A/S provides eDNA sample kits based on filtration of water samples. Samples kits are available for either manual filtration (A) or pressure assisted filtration (B). For pressure assisted filtration additional equipment is needed (see Pressure asisted filtration system).

Sample kit A: Manual sampling with filtration. Includes handheld syringe (60 mL) and filter unit. Maximal filtration volume depends on the water quality. Manual repetitive filtration using the same filter unit enables larger filtrations volumes. Recommended for high sensitivity (low detection limit) and few investigated sites.

Sample kit B: Pressure assisted filtration. Includes filter unit and filtration bag (2000 mL) to be used in combinations with equipment for pressure assisted filtration. Automatic filtration in the field, in the car or in the lab. Maximal filtration volume depends on the water quality. Recommended for high sensitivity (low detection limit) and several investigated sites.

SPECIFICATION	A	B
60 ml Syringe for manual filtration	✓	
Filter unit	✓	✓
Filtration bag		✓
Preservation solution (option)	✓	✓
Syringe for preservation solution (option)	✓	✓
2 stoppers for filter	✓	✓
Unique number labels and lab requisition form	✓	✓
One set of single use gloves	✓	✓
Instruction guide	✓	✓
10 ml syringe		✓