

# COLLECTION STANDARD OPERATING PROCEDURE

## Zooplankton

### 1 Sample collection

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- Zooplankton is collected using a double WP2 plankton net.
- Each hoop is equipped with a WP2 net with 0.25 m<sup>2</sup> aperture and 200 µm mesh size (Fig. 1)
- This double WP2 plankton net allows duplicate samples in one tow.



*Figure 1 Zooplankton collection using WP2 plankton net*

- The net is towed vertically from 200 m depth to surface at the NEREA\_CAPRI station and from 50 m depth to surface at the NEREA\_MC station, while it is towed obliquely from 15 m depth to surface at the NEREA\_SARNO station
- A mechanic flux meter is used to calculate the water passed through the net
- The sample is collected in a 500 mL plexiglas filtering cod-end (Fig. 2)
- The sample is then disposed into clean plastic containers (500 ml) (Fig. 2)



Figure 2 Transfer of samples into clean plastics containers

## 2 SAMPLE PROCESSING

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Sample processing is done as soon as possible.

Two samples are collected: one community metabarcoding, metagenomics and metatranscriptomics, another for Reference Library and qualitative, quantitative analysis

For community meta B/G/T:

- The sample is passed through 2000  $\mu\text{m}$  sieve (Fig.3)
- The pellet is split into three subsamples
- Each subsample is disposed into 2 ml cryovials
- Cryovials are immediately frozen in liquid nitrogen on board and later stored at  $-80^{\circ}\text{C}$



Figure 3 Sample passed through 2000  $\mu\text{m}$  sieve

For Reference Library construction, and quali-quantitative analysis:

- The net sample is split in two subsamples each of 250 ml
- Each subsample is disposed into clean plastic containers
- 95% Ethanol is poured into each container
- and preserved in 95% ethanol