

For the extraction 500 to 1000 ml sample are required.

Additionally required equipment and materials

- SureFast® PREP DNA/RNA Virus (order no. F1054)
- vacuum flask
- sterilized or disposal forceps
- vacuum filtration equipment (stainless steel, e.g. Sartorius order no 16213), for filters of 50 mm in diameter (e.g. VWR order no.: 512-3300)
- disposable funnel (e.g. BIOSART order no.: 516-7024)
- pump
- filter (e.g. Zeta Plus™ 1MDS filter, Lenntech)
- 5 ml reaction tube

Procedure

Before each preparation

Add 400 µl RNase free PCR grade H₂O into the Extraction Tube (Kit-Code ET) and mix it, add at step 8 of the sample preparation

Sample preparation

1. attach autoclaved vacuum filtration equipment with the vacuum flask and connect the vacuum flask to the pump
2. use sterilized or disposal forceps to apply a new Zeta Plus™ 1MDS filter
3. attach the disposable funnel and activate the pump
4. apply the water sample (500 – 1000 ml) and filtrate completely
5. deactivate the water jet pump and remove the funnel
6. fold the membrane tightly starting at the edge with a second sterilized or disposal forceps
7. transfer the folded membrane into the 5 ml reaction tube
8. add the prepared lysis buffer (Kit-Code ET) and mix it up

Caution: If the membrane absorbs too much of the liquid, it is necessary to add 200 µL RNase free PCR grade H₂O.

Lysis of the material

1. transfer the reaction-tube (5 ml) into the Thermomixer with a suitable thermoblock
2. incubate at 65 °C for 15 min under continuously shaking
3. incubate 95 °C for 10 min under continuously shaking
4. continue with SureFast® PREP DNA/RNA Virus (order no. F1054) at 2.5. Extraction protocol point 2. Setting of optimal binding conditions

Example of a filtration unit



- vacuum flask
- pump
- disposable funnel
- vacuum filtration equipment