



## Executive summary

### Introduction

The research of large volumes of water is necessary for a reliable assessment of the elimination of micro-organisms during purification, and for an estimate of the infection risk by such organisms in drinking water.

A cross flow ultrafilter (Hemoflow-filter) that is used for kidney dialysis, can also be used for the concentration of microorganisms in water.

The method has been described in Deliverable 3.2.4 (A method for the concentration of large volumes of water). That report describes the validation of concentration of micro-organisms with the Hemoflow-filter in several types of water samples.

### Importance

An important advantage of this filter is that it concentrates parasitic protozoa, bacteria, spores as well as viruses/phages with high recovery.

### Approach

The procedure for the filtration method is described in detail in the protocol.

### Result

The Deliverable described here describes the procedure to concentrate water samples for microbiological analysis with the use of cross-flow ultra-filtration (Hemoflow-filter). The application of this protocol and its outcomes are described in detail in Deliverable 3.2.4.

### More information

The protocol can be found in Deliverable 3.2.11 (Concentration method using Hemoflow ultrafiltration. The protocol)

Authors: L. Heijnen, A.J. Brouwer-Hanzens, H.R. Veenendaal (all KWR)

Contact: Leo Heijnen, +31-30-6069743, [Leo.Heijnen@kwrwater.nl](mailto:Leo.Heijnen@kwrwater.nl)