

METHOD STATEMENT



Determinand:

CellTrap (E.coli, total coliforms, Clostridium perfringens and Enterococcus faecalis)

Matrix:

Sample Type: Waters.

Principle of Method:

The CellTrap filtration devices are submitted to the laboratory, following large volume filtration in the field. The laboratory performs an elution of bacteria from the device using multiple, pressurised flushing of the device with maximum recovery diluent (MRD). The resulting 300ml of eluate is then processed via the standard bacteriological methods (WPM2, WPM3 and WPM4) to enumerate and where necessary, confirm E.coli, total coliforms, Clostridium perfringens and Enterococcus faecalis.

Sampling and Sample Preparation:

Once taken, microbiological samples should be transferred immediately to dark storage conditions and kept at a temperature between 2 - 8°C for transport to the laboratory. If samples are not analysed immediately on receipt in the laboratory, they should be kept at a temperature between 2 - 8°C, in dark conditions until analysis commences.

Samples should be analysed as soon as practicable on the day of collection. In exceptional circumstances, if there is a delay, storage under the above conditions should not exceed 24 hours before the commencement of analysis.

Where an exceedance has occurred the customer should be informed or a statement reflecting this should be included with the report (except where the customer has been already made aware that this is occurring on a regular basis and requests this not to be applied).

Interferences

No interferences are known for this method.

Performance of Method:

Limit of Detection and Recovery:

The limit of detection and the % recovery for each of the three target organisms are calculated and available in the final validation report for this method.

References:

The Use of the CellTrap HV Device for Large Volume Bacteriological Testing. STL validation report. Benton, S., Shah, T. 2010.