

Global Proficiency's WaterChek Microbiology programme has been designed as a multi-purpose scheme providing test verification across a wide range of water sources and microbiological tests.



## PROGRAMME OBJECTIVE

The WaterChek Microbiology proficiency testing scheme has been developed over many years to enable laboratories to validate their testing capabilities and to benchmark their test results. The scheme provides independent test verification for microbiology laboratories testing a number of water types and covering a wide range of microorganisms.

## BENEFITS OF PARTICIPATING

### ➤ Confidence in Results

Measurement of performance in comparison with other laboratories provides confidence that:

- Precision and Accuracy of test results are within acceptable limits.
- Results from other laboratories (or methods) are equivalent.
- In-house methods are equivalent to standard methods.

### ➤ Credibility

Performance can be demonstrated to:

- Customers
- Regulatory Authorities
- Accreditation Agencies

### ➤ Compliance with

- Laboratory Standards (e.g., ISO 17025)
- National Standards
- Regulatory and market access requirements

### ➤ Training

Test performance from individual analysts can be monitored and reported over time.

## PROGRAMME FEATURES

- Comprehensive range of sample types and microorganisms.
- Participation by many accredited laboratories provides high quality, robust data sets with low variation.
- Direction from independent Technical Advisory Group.
- Used by MPI (Ministry for Primary Industries), as the provider of Inter-Laboratory Comparison Programmes for the meat and food testing industries.

## ACCREDITATION

Global Proficiency is accredited to ISO/IEC 17043:2010 Conformity Assessment - General Requirements for Proficiency Testing; our scope includes the WaterChek Microbiology programme.

## SAMPLE TYPES AND AVAILABLE TESTS

### POTABLE WATER

Heterotrophic Plate Count 35-37°C and 20-28°C  
Total Coliforms (MF, MPN, P/A)  
Faecal Coliforms (MF, MPN)  
*Escherichia coli* (MF, MPN, P/A)  
Enterococci (MF)  
*Clostridium perfringens* (vegetative cells) (MF)  
*Clostridium perfringens* spores (MF) offered some rounds – refer to timetable.

### Additional test offered in the Apr & Aug rounds:

*Pseudomonas aeruginosa* (MF) - separate sample set provided

### RECEIVING (RECREATIONAL) WATER

Heterotrophic Plate Count 35-37°C and 20-28°C  
Total Coliforms (MF, MPN)  
Faecal Coliforms (MF, MPN)  
*Escherichia coli* (MF, MPN)  
Enterococci (MF, MPN)

### EFFLUENT WATER

Heterotrophic Plate Count 35-37°C and 20-28°C  
Total Coliforms (MF, MPN)  
Faecal Coliforms (MF, MPN)  
*Escherichia coli* (MF, MPN)  
Enterococci (MF, MPN)  
*Pseudomonas aeruginosa* (MF) – offered in the May round only

### SEA (MARINE) WATER

Heterotrophic Plate Count 35-37°C and 20-28°C  
Total Coliforms (MF, MPN, P/A)  
Faecal Coliforms (MF, MPN)  
*Escherichia coli* (MF, MPN, P/A)  
Enterococci (MF, MPN - separate sample set provided for testing via Enzyme Substrate)

### POOL WATER

Heterotrophic Plate Count 37°C  
Faecal Coliforms (MF, MPN)  
*Escherichia coli* (MF, MPN)  
*Staphylococcus aureus* (MF)  
*Pseudomonas aeruginosa* (MF) - separate sample set provided

**Note: MF and MPN tests are assessed separately.**

## FOR MORE INFORMATION PLEASE VISIT OUR WEBSITE

[www.global-proficiency.com](http://www.global-proficiency.com)

OR EMAIL

[enquiries@global-proficiency.com](mailto:enquiries@global-proficiency.com)