

Water is disinfected to make it suitable for public use, however the process can leave the presence of carcinogenic “disinfection by-products (DBP)”. Monitoring of the water is important for ensuring the health of the public who are drinking or using the water.



## PROGRAMME OBJECTIVE

The WaterChek DBP Proficiency Testing scheme has been developed to provide a system for laboratories to verify their testing capability and benchmark their results. Sample preparation has been designed to cover a range of concentrations for selected analytes, ensuring sample properties are representative of samples most often tested by laboratories. Programme is offered annually, alternating between Inorganic and Organic Disinfection By-Products, each sample type being offered biennially: Organics – every even year, and Inorganics – every odd year.

## BENEFITS OF PARTICIPATING IN WATERCHEK:

### ➤ Confidence in Results

Measurement of performance in comparison with other laboratories provides:

- Confidence that Precision and Accuracy of test results are within expected limits.
- Confirmation of differences between methods where this may be expected.

### ➤ Credibility

Test performance can be demonstrated to:

- Customers
- Regulatory Authorities
- Accreditation Agencies

### ➤ Compliance with

- Laboratory Standards (e.g., ISO 17025)
- Regulatory, environmental and customer requirements

### ➤ Training

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

## FEATURES

- Comprehensive range of proven sample formats covering a range of tests in each round.
- Guidance from the independent Technical Advisory Group ensures relevance to current industry needs.

## ACCREDITATION

Global Proficiency is accredited to ISO/IEC 17043:2010 Conformity Assessment - General Requirements for Proficiency Testing: our scope includes the WaterChek programme however the Inorganic and Organic DBP categories are not currently included.

## SAMPLE TYPES:

### Inorganic Disinfection By-Products

- Br oxyhalides (24 mL vial yields 4L after dilution)
- Cl oxyhalides (24 mL vial yields 4L after dilution)
- Perchlorate (15 mL vial yields 2L after dilution)

### Organic Disinfection By-products

- Trihalomethanes (2mL yields up to 200mL after dilution at concentration range 5-50 µg/L)
- Haloacetic Acids (2mL yields up to 2L after dilution at concentration range 5-50 µg/L)

## AVAILABLE TESTS:

### ➤ Inorganic Disinfection By-Products Proficiency

#### *Br Oxyhalides (WDB)*

- Bromate
- Bromide

#### *Cl Oxyhalides (WDA)*

- Chlorate
- Chlorite

#### *Perchlorate (WDD)*

- Perchlorate

### ➤ Organic Disinfection by-products Proficiency

#### *Trihalomethanes (WDT)*

- Bromoform
- Chlorodibromomethane
- Bromodichloromethane
- Chloroform
- Total Trihalomethanes

#### *Haloacetic Acids (WDH)*

- Bromoacetic acid
- Bromochloroacetic Acid
- Chloroacetic acid
- Dibromoacetic acid
- Dichloroacetic acid
- Trichloroacetic acid
- Total Haloacetic acids

## FOR MORE INFORMATION PLEASE VISIT

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