

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: Conformity Assessment - General Requirements for the competence of proficiency testing providers; 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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