# WaterChek Disinfection By-Products (DBP)

**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, for both Inorganic and Organic Disinfection By-Products.**

## 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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Delivered by
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November 2026

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