

Checklist for adding coliphages to an analytical program

Questions on monitoring objective, matrix, volume, host strain, controls, PFU results and reporting.

Prepared for water microbiology, traceability and product selection conversations.

Objective

- Questions on monitoring objective, matrix, volume, host strain, controls, PFU results and reporting.

Scope

- Audience: Laboratories, utilities, quality teams, scientific distributors
- Region: Global
- Level: Technical
- Reading time: 10-12 min
- Related topics: Somatic coliphages, Viral indicators, ISO 10705-2, EPA 1601/1602, AquaVerify Cloud

How to use this checklist

- Use the checklist before selecting a product, defining a sampling plan, preparing an audit file or opening a platform discussion.
- Keep one completed copy with the sample plan, product decision, reviewer notes and report evidence.
- Confirm final method, accreditation and competent-authority requirements inside the organization quality system.

Controls to verify

- Why bacterial indicators do not always answer a viral-risk question
Status: Responsible person: Notes:
- Somatic vs F-specific coliphages
Status: Responsible person: Notes:

- Comparative table of microbiological indicators

Status:	Responsible person:	Notes:
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- When to add coliphages to an analytical program

Status:	Responsible person:	Notes:
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- Implementation checklist

Status:	Responsible person:	Notes:
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- Related AquaVerify products

Status:	Responsible person:	Notes:
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- Official references

Status:	Responsible person:	Notes:
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- Recommended next step

Status:	Responsible person:	Notes:
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- Define whether the question is fecal, viral, treatment, compliance, research or screening.

Status:	Responsible person:	Notes:
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- Identify the matrix: raw, treated, groundwater, reclaimed, process, recreational or industrial water.

Status:	Responsible person:	Notes:
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- Select somatic, F-specific or combined coliphage testing.

Status:	Responsible person:	Notes:
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- Confirm the applicable reference: ISO 10705-2, EPA 1601, EPA 1602 or another method.

Status:	Responsible person:	Notes:
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- Define volume, host strain, controls, incubation, reading and acceptance criteria.

Status:	Responsible person:	Notes:
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- Record material lot, operator, date, sampling point and transport conditions.

Status:	Responsible person:	Notes:
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- Link the result to technical review, CoA and customer-facing evidence.

Status:	Responsible person:	Notes:
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- Avoid claiming compliance without a confirmed scope.

Status:	Responsible person:	Notes:
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- ENUMERA - Quantitative kits for microbiological enumeration and documentable results.

Status:	Responsible person:	Notes:
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- Kits ISO/EPA - Technical workflows alignable with ISO/EPA references depending on matrix, method and laboratory scope.

Status:	Responsible person:	Notes:
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- Lab Essentials - Prepared media, controls, reagents and materials to reduce operational variability.

Status:	Responsible person:	Notes:
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- AquaVerify Cloud - LIMS, CoA, audit trail, customer portal and documentary traceability.

Status:	Responsible person:	Notes:
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- Water analysis laboratories

Status:	Responsible person:	Notes:
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- Municipal water analysis

Status:	Responsible person:	Notes:
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- Water quality control

Status:	Responsible person:	Notes:
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Industrial process water

Status: Responsible person: Notes:

ISO 10705-2:2000 - Water quality - Detection and enumeration of bacteriophages - Part 2: Enumeration of somatic coliphages

Status: Responsible person: Notes:

U.S. EPA Method 1601 - Male-specific (F+) and Somatic Coliphage in Water by Two-step Enrichment Procedure

Status: Responsible person: Notes:

U.S. EPA Method 1602 - Male-specific (F+) and Somatic Coliphage in Water by Single Agar Layer (SAL) Procedure

Status: Responsible person: Notes:

WHO - Water safety planning

Status: Responsible person: Notes:

Evidence to retain

- Status: Compliant / Partial / Non-compliant / Not applicable
- Responsible person:
- Notes:

Sources and links

- Associated HTML resource: <https://aquaverify.com/resources/coliphages-water-quality-indicators>
<https://aquaverify.com/resources/coliphages-water-quality-indicators>

Suggested next step

Use the completed checklist to prepare a product, platform, distributor or OEM discussion with AquaVerify.

HTML resource URL:

<https://aquaverify.com/resources/coliphages-water-quality-indicators>

This document is technical orientation material. Method validation, accreditation, competent authority requirements and the quality system of each organization remain decisive.