



Instruction Sheets

QWAS
Water Microbiology
Proficiency Testing Scheme

lgcstandards.com/AXIO

Detailed information about samples, matrices, ranges, units, etc. can be found in the [QWAS Scheme Description](#)

Issue No: 24

Issued: 05/03/2026

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GENERAL INFORMATION

Storage after receipt

On receipt of the test material, record the date and store as appropriate.

Storage temperature	Samples			
Refrigerated (2 to 8°C)	PT-WT-412	PT-WT-418	PT-WT-423	PT-WT-432
	PT-WT-413	PT-WT-419	PT-WT-424	PT-WT-433
	PT-WT-414	PT-WT-420	PT-WT-425	PT-WT-434
	PT-WT-416	PT-WT-421	PT-WT-426	PT-WT-435
	PT-WT-417	PT-WT-422	PT-WT-429	
Frozen (-20°C)	PT-WT-431	PT-WT-436		

Please note:

- Conditions for storage after receipt of the sample may differ from the conditions under which the PT sample was transported
- Stability data have shown that uncooled transport of samples intended to be stored at 2-8°C does not affect the stability of the test materials for the time of the PT round

The test material(s) should be analysed in accordance with the deadlines shown on the website: <https://portal.lgcstandards.com>

Choice of method or procedure

Participants are expected to use the test method, calibration, or measurement procedure of their choice. This method should be consistent with the participant's normal procedures, for example, duplicate analysis should only be performed if that is part of the routine analytical process.

Test materials when reconstituted, represent a 'real' or 'neat' water or effluent sludge sample, which may or may not contain the target organism(s) at a range of inoculum levels. Background flora may also be present.

Participants may submit results for some, or all the parameters requested.

Precautions

- Microbiological test materials contain viable micro-organisms and are supplied on the understanding that the purchaser has suitably competent and qualified personnel to handle them safely. Test materials must only be opened in a laboratory by qualified personnel.
- Refer to the Safety Data Sheet for information on the safe handling and disposal of the test materials


Reporting Results








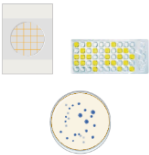
- All results should be submitted using PORTAL
- Please go to <https://portal.lgcstandards.com>
- Login using your Lab ID, username, and password.
- A PORTAL user guide can be downloaded from the help section.

If you need any help at all, please do not hesitate to contact our support team using the details below or your local LGC representative.


Tel: +44(0)161 762 2500








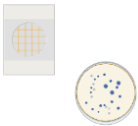
Email: axiopt@lgcgroup.com

Protocol WM1V-A	Sample codes:			Description: 1 x 10ml vial	
	PT-WT-412	PT-WT-413	PT-WT-421		
	PT-WT-424	PT-WT-425	PT-WT-433		


Step 1 Prepare 1L sterile deionised water to use as a diluent		Step 2 Aseptically remove cap and stopper from the vial and reconstitute the test material by adding 10ml of the diluent		Step 3 Replace the vial stopper and shake to dissolve	
Step 4 Add this concentrate to the remaining diluent		Step 5 Repeat this procedure 2 or 3 times to ensure all the freeze-dried test material is recovered from the vial		Step 6 Invert sample 5 times	
Step 7 Leave to stand for 15 to 45 minutes	 This represents a real water sample	Step 8 Test for the target organism(s) using your routine laboratory methods			





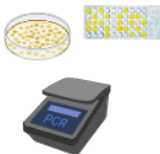
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Protocol WM1V-B	Sample codes:		Description: 1 x 10ml vial	
	PT-WT-414	PT-WT-429		


Step 1 Prepare 100mL sterile deionised water to use as a diluent		Step 2 Aseptically remove cap and stopper from the vial and reconstitute the test material by adding 10ml of the diluent		Step 3 Replace the vial stopper and shake to dissolve	
Step 4 Add this concentrate to the remaining diluent		Step 5 Repeat this procedure 2 or 3 times to ensure all the freeze-dried test material is recovered from the vial		Step 6 Invert sample 5 times	
Step 7 Leave to stand for 15 to 45 minutes	 This represents a real water sample	Step 8 Test for the target organism(s) using your routine laboratory methods			







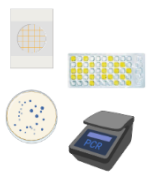
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Protocol WM1VM	Sample codes:	Description:	
	PT-WT-416 PT-WT-432	1 x 10g sludge	

<p>Step 1 Prepare 90ml sterile deionised water to use as diluent</p>		<p>Step 2 Reconstitute test material with the diluent prepared in step 1 and mix thoroughly</p>		<p>Step 3 Leave to stand for 15 to 45 minutes</p>	  15-45 min resuscitation
<p>Step 4 The reconstituted test material should be treated as the 'neat' sludge sample</p>	 <div style="background-color: black; color: white; padding: 2px; text-align: center; font-size: small;">This represents neat sludge sample</div>	<p>Step 5 Test for the target organisms using your routine laboratory methods</p>			

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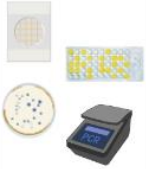
Protocol WM1V-C	Sample codes:			Description:	
	PT-WT-417 PT-WT-420 PT-WT-435	PT-WT-418 PT-WT-423	PT-WT-419 PT-WT-434	1 x 10ml vial	

<p>Step 1 Prepare batches of 1L sterile deionised water to use as a diluent (depending upon the number of tests you wish to perform)</p>		<p>Step 2 Aseptically remove cap and stopper from the vial and reconstitute the test material by adding 10ml of deionised water</p>		<p>Step 3 Replace the vial stopper and shake to dissolve</p>	
<p>Step 4 Invert sample 5 times</p>		<p>Step 5 Transfer 1ml aliquots to each 1L volume of sterile deionised water as required</p>		<p>Step 6 Leave to stand for 15 to 45 minutes</p>	 15-45 min resuscitation
<p>Step 7 Test for the target organism(s) using your routine laboratory methods</p>					

This represents a real water sample





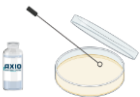
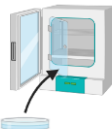

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Protocol WM1V-D	Sample codes:	Description:	
	PT-WT-422	1 x 10ml vial	

<p>Step 1 Prepare batches of 1L sterile 3% saline to use as a diluent (depending upon the number of tests you wish to perform)</p>		<p>Step 2 Aseptically remove cap and stopper from the vial and reconstitute the test material by adding 10ml of sterile 3% saline</p>		<p>Step 3 Replace the vial stopper and shake to dissolve</p>	
<p>Step 4 Invert sample 5 times</p>		<p>Step 5 Transfer 1ml aliquots to each 1L volume of sterile 3% saline as required</p>		<p>Step 6 Leave to stand for 15 to 45 minutes</p>	 This represents a real water sample
<p>Step 7 Test for the target organism(s) using your routine laboratory methods</p>					


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Protocol WM1V-E	<p>Sample codes:</p> <p>PT-WT-426</p>	<p>Description:</p> <p>1 x 10ml vial</p>	
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<p>Step 1 Resuscitate the sample by adding 9ml of your chosen diluent</p>		<p>Step 2 Mix the test material thoroughly under aseptic conditions</p>		<p>Step 3 Leave the test material to resuscitate at room temperature for 15 to 45 minutes</p>	
<p>Step 4 Immediately before testing, mix the resuscitated sample thoroughly</p>		<p>Step 5 Streak onto non-selective media</p>		<p>Step 6 Incubate at mesophilic temperature</p>	
<p>Step 7 Use your microbiological knowledge and microbiology tests to identify the organism contained in the test material</p>					







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Protocol WM1P	Sample codes:	Description:	
	PT-WT-427	1 x paper	

<p>Step 1 Count colonies and calculate the number of microorganisms according to the instructions</p>	
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Protocol WM1T-A	Sample codes:	Description:	
	PT-WT-431	1 tube containing lyophilised material	

Step 1 Prepare 500ml of sterile water		Step 2 Aseptically transfer 1ml sterile water to the tube		Step 3 Homogenise using the pipette	
Step 4 Transfer the 1ml to the main volume of sterile water		Step 5 Repeat the procedure 2 or 3 times to ensure all the material is recovered from the vial		Step 6 Analyse 100ml with your chosen method	

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Protocol WM1T-B	<p>Sample codes:</p> <p>PT-WT-436</p>	<p>Description:</p> <p>1 tube containing lyophilised material</p>	
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<p>Step 1 Prepare 5ml of sterile water</p>		<p>Step 2 Aseptically transfer 1ml of sterile water to the tube</p>		<p>Step 3 Homogenise using the pipette</p>	
<p>Step 4 Transfer the 1ml to the vial of sterile water</p>		<p>Step 5 Repeat the procedure 2 or 3 times to ensure all the material is recovered from the vial</p>		<p>Step 6 Analyse 1ml with your chosen method</p>	

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