

Summary of Results

External Quality Assessment of Water Microbiology

Hospital Tap Water Scheme

Distribution Number: HTW32

Sample Numbers: HTW32A, HTW32B

Distribution Date:	Echrucry 2025
	February 2025
Results Due:	14 March 2025
Report Date:	18 March 2025
Samples prepared and quality control tested by:	Divya George Afifa Halim Nafeesa Hussain Sabine Naujokat Zak Prior Jake Videlefsky
Data analysed by:	Joanna Donn Nita Patel
Report compiled by:	Joanna Donn Nita Patel
Authorised by:	Nita Patel

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For further information about the scheme	please refer to:		
Scheme Guide: https://www.feptu.org.uk/schemes/scheme-guide/			
Guide to Scoring and Statistics: <u>http</u>			
General guidance for z-scores:			
Participants' enumeration results are conv	rerted into z-scores using the following form	ula:	
	It (expressed as a log₁₀ value)		
	participants' consensus median (expressed	as a log 10 value))	
σ_{pt} σ_{pt} = the fixed standard	d deviation for the examination (calculated b	by FEPTU)	
The σ_{pt} -value expresses the acceptable difference between the individual participant's result and the participants' consensus median. The σ_{pt} -value used for calculating z-scores in the Hospital Tap Water Scheme is 0.35. A guide to interpreting z-scores follows, although laboratories must interpret their scores in the context of their own laboratory situation:			
z = -1.99 to +1.99 satisfa	actory		
z = -2 to -2.99 or +2 to +2.99 question	onable		
	sfactory		
-	xceeding ± 2.0 are investigated to establish questionable and unsatisfactory results are		
FEPTU Quality Control: To demonstrate homogeneity of the sample, a minimum of 10 LENTICULE [®] discs, selected randomly from a batch, are tested in duplicate for the enumeration test.			
To demonstrate stability of the sample, a minimum of six LENTICULE discs, selected randomly from a batch, are examined throughout the distribution period for the enumeration test.			
FEPTU results are determined using the method stated in the UK Department of Health document: Health Technical Memorandum 04-01: Safe water in healthcare premises Part C: Pseudomonas aeruginosa - advice for augmented care units (2016).			
C C	in the preliminary intended results notificat n; electronic notification of their availability	· · · ·	
Refer to section 19.0 of the Scheme Guide	if you have experienced difficulties with an	y of the examinations .	
https	://www.feptu.org.uk/schemes/scheme-guide/		
Participants are reminded that reporting incorrect or false negative results for water samples could have serious public health implications.			
Please contact FEPTU staff for advice and	d information:		
Repeat samples	Carmen Gomes or Kermin Daruwalla	Tel: +44 (0)20 8327 7119	
Data Analysis	Nita Patel	Fax:	
Microbiological advice	Nita Patel or Zak Prior	Email: foodeqa@ukhsa.gov.uk	
General comments and complaints	Nita Patel or Zak Prior	FEPTU's website	
Scheme consultants	Caroline Willis		
Scheme Co-ordinator	Nita Patel		
Accreditation: UKHSA Water EQA Schem Service (UKAS) to ISO/IEC 17043:2010.	e for Hospital Tap Water is accredited by th	e United Kingdom Accreditation	

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Sample: HTW32A

Contents:

Micrococcus sp. (33) (wild strain), Penicillium chrysogenum (18) (wild strain), Providencia rettgeri (68)

(NCTC 7475)

Expected Results:

All counts are expressed as colony forming units (cfu) per 100mL.

The fixed standard deviation value (σ_{pt} value) used for calculation of the z-score is 0.35 for this parameter.

Results	
FEPTU median (MF) ¹	0
No. results returned	39
Assigned value (Participants' median all results)	0
Interpretation based on assigned value*	Satisfactory
Uncertainty of assigned value	N/A
Participants' mean (all results)	N/A
Expected Range	N/A
Standard deviation**	N/A
No of outlying counts	N/A
False positives	0
False negatives	
Your result	
Your interpretation	
Score for performance assessment	
Z-score	

¹ Membrane filtration

* Reference: <u>HTM 04-01 part B</u>

** Robust S* based on median absolute deviation about the participants' median (MADe)

Total sent samples	44
Not examined	1
Non returns	4

Sample: HTW32B

Contents:

Pseudomonas aeruginosa (97) (wild strain), Saccharomyces cerevisiae (15) (wild strain)

Expected Results:

All counts are expressed as colony forming units (cfu) per 100mL.

The fixed standard deviation value (σ_{pt} value) used for calculation of the z-score is **0.35** for this parameter.

Results	
FEPTU median (MF) ¹	98
No. results returned	39
Assigned value (Participants' median all results)	99
Interpretation based on assigned value*	Risk-assess and retest (pre-/post-flush) as stated in HTM 04-01 part B
Uncertainty of assigned value	6
Participants' mean (all results)	101
Expected Range	35 - 163
Standard deviation**	32
No of outlying counts	2
False positives	
False negatives	1
Your result	
Your interpretation	
Score for performance assessment	
Z-score	

¹ Membrane filtration

* Reference: <u>HTM 04-01 part B</u>

** Robust S^* based on median absolute deviation about the participants' median (MADe)

Total sent samples	44
Not examined	1
Non returns	4

Performance Assessment Sheet

Distribution	Sample	Pseudomonas aeruginosa score
HTW32	HTW32A	
П I W32	HTW32B	
	HTW31A	
HTW31	HTW31B	
HTW30	HTW30A	
HIW30	HTW30B	
Total maximum possible		
score		
Total percentage		

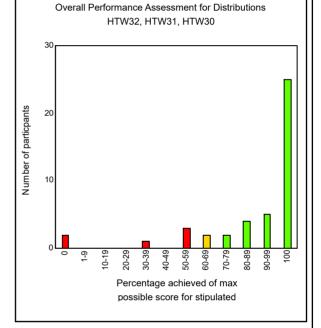
Performance Assessment Comment:

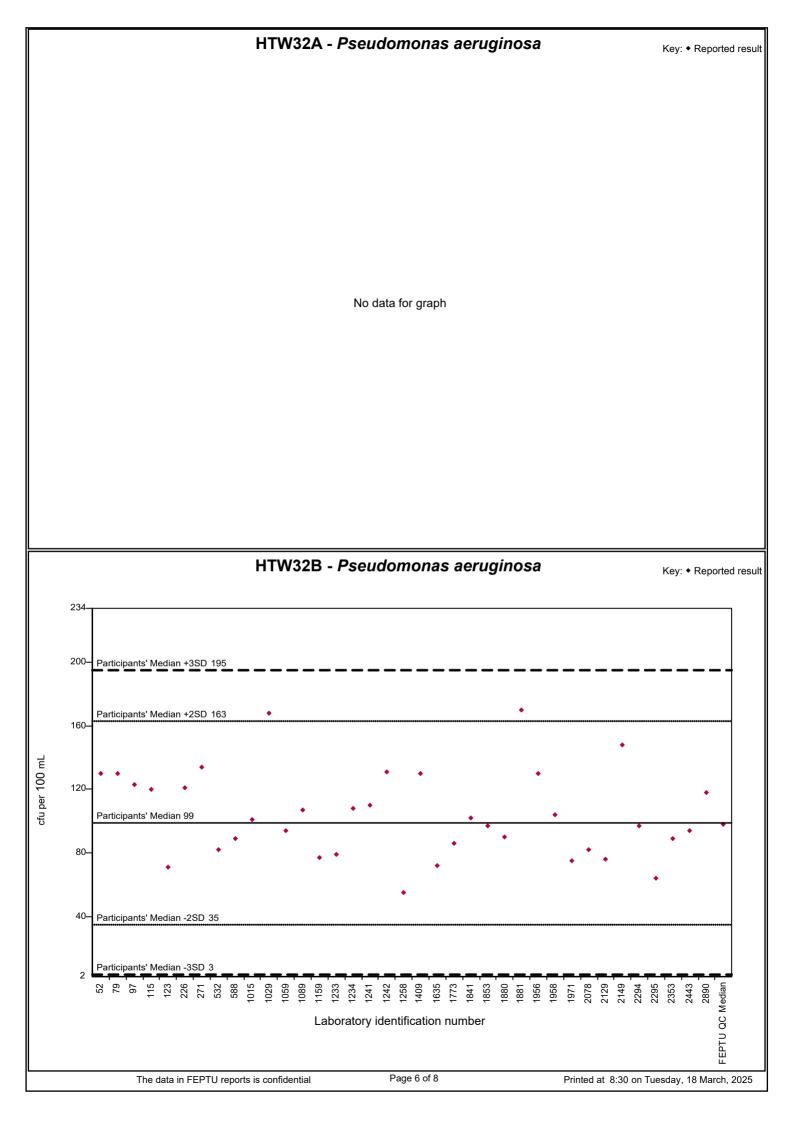
Participants are reminded that to take advantage of the performance assessment overtime tool provided in the reports they need to take part in more than one distribution a year.

Performance assessments are designed to alert participants to on-going problems with their examinations and are provided after every distribution. Scores are allocated to results reported for every parameter, for every sample to help assess performance.

Cumulative scores are calculated for the current distribution for the Hospital Tap Water Scheme. Participants' cumulative scores for each of the examinations are compared with the maximum possible scores after every distribution.

Your overall performance with the enumerations in the hospital tap water proficiency testing samples for the current distribution is collated in the chart to the right.





Sample specific comment:

HTW32A: 20 laboratories provided a conclusion on the results reported, responses are shown in the table below:

Colony forming counts reported per 100mL	Conclusion reported by the laboratories (number of laboratories)
	Satisfactory
Count reported 0	(18)
Censored value <1	(2)
	No comments/interpretation by laboratory provided
Count reported 0	(9)

HTW32B: 20 laboratories provided a conclusion on the results reported, responses are shown in the table below:

Colony forming counts reported per 100mL	Conclusion reported by the laboratories (number of laboratories)
	Satisfactory
Range reported 0 - 90	(3)
	Risk-assess and retest (pre-/post-flush) as stated in HTM 04-01 part B
Range reported 55 – 120	(10)
Censored value >100	
	Retest (pre-/post-flush)
Count reported 82	(1)
	Unsatisfactory
Range reported 76 - 148	(5)
	No comments/interpretation by laboratory provided
Range reported 71 - 134	(9)

Participants are reminded to only report a conclusion on a test result if this is part of your reporting procedure.

In the UK, the following document provides information on the requirements for the quality assurance of water systems, microbiological testing and interpretation/conclusions of test results: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/524882/DH_HTM_0401_PART_B_acc.pdf

The Interpretation/conclusions of microbiological test results in your country may vary to those published in this document.

General comment:

If you do not return a result for a distribution, you will not be able to view all the participants' results data in your individualised report. To access the missing data contact us on <u>foodega@ukhsa.gov.uk</u>

New website

We are pleased to announce the launch of our new website: <u>https://www.feptu.org.uk/</u>. Please refer to this website to obtain the latest information for your proficiency testing.

Information of importance

To understand more about the proficiency testing schemes, please use the following links for information on:

1. Report format explained: Annotated report

- 2. Performance rating: Performance-over-time and Scheme guide (section 16.0)
- 3. Scoring and statistics used: Scoring information and stats
- 4. Homogeneity and stability: Scheme guide (section 9.0)
- 5. Complaints and appeal process: Scheme guide (section 20.0 and 21.0)

For further information about the operation of the service including confidentiality and terms of participation, please refer to the Scheme Guide: Scheme guide

End of report.