



Summary of Results

External Quality Assessment of Water Microbiology Drinking Water Scheme

Distribution Number: W184

Sample Numbers: W184A, W184B, W184C

Distribution Date:	November 2018
Results Due:	07 December 2018
Report Date:	18 December 2018
Samples prepared and quality control tested by:	Angela Appea Richard Borrill Thomas Harper Margaret Njenga Zak Prior Lili Tsegaye Vanessa Waite
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Report compiled by:	Nita Patel Manchari Rajkumar
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For further information on the scheme please refer to:

Scheme Guide: <https://www.gov.uk/government/publications/food-and-water-proficiency-testing-schemes-scheme-guide>

Guide to Scoring and Statistics:

<https://www.gov.uk/government/publications/food-and-water-proficiency-testing-schemes-scoring-systems-and-statistics>

General guidance for z-scores:

Participants' enumeration results are converted into z-scores using the following formula:

$$Z = \frac{(X_i - X_{pt})}{\sigma_{pt}}$$

X_i = participants' result expressed (expressed as a log₁₀ value)
 X_{pt} = assigned value (participants' consensus median (expressed as a log₁₀ value))
 σ_{pt} = the fixed standard deviation for the examination (calculated 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 for all parameters in the Drinking 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 **satisfactory**
z = -2 to -2.99 or +2 to +2.99 **questionable**
z < -3.00 or > +3.00 **unsatisfactory**

It is usually recommended that z-scores exceeding +/-2 are investigated to establish the possible cause. As a general rule, PHE recommends that all questionable and unsatisfactory results are investigated.

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 parameters requiring enumeration.

To demonstrate stability of the sample, a minimum of six LENTICULE discs, selected randomly from a batch, are examined throughout the distribution period for enumeration parameters.

PHE uses methods stipulated in the DWI 's series of documents: The Microbiological of Drinking Water (2002) - Methods for the Examination of Waters and Associated Materials.

The FEPTU results are used for guidance in the preliminary intended results notification, letters are posted on the website immediately after every distribution; electronic notification of their availability is sent to all participants.

Refer to section 17.0 of the Scheme Guide if you have experienced difficulties with any of the examinations.

<https://www.gov.uk/government/publications/food-and-water-proficiency-testing-schemes-scheme-guide>

Participants are reminded that reporting an incorrect or false negative results could have serious public health implications.

Results, as summarised in the performance assessment sheet included in this report, provide a more effective indication of on-going problems with the enumeration of low levels of indicator organisms in drinking water samples. Performance assessment cannot be undertaken as effectively if laboratories do not participate in all distributions for the Drinking Water Scheme.

Please contact FEPTU staff for advice and information:

Repeat samples	Carmen Gomes or Kermin Daruwalla	Tel: +44 (0)20 8327 7119
Data Analysis	Manchari Rajkumar or Nita Patel	Fax: +44 (0)20 8200 8264
Microbiological advice	Nita Patel or Zak Prior	Email: foodeqa@phe.gov.uk
General comments and complaints	Nita Patel or Zak Prior	FEPTU's website
Scheme consultants	Julie E. Russell	
Scheme Co-ordinator	Nita Patel	

Accreditation: PHE Water EQA Scheme for Drinking Water is accredited by the United Kingdom Accreditation Service (UKAS) to ISO/IEC 17043:2010.



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Sample: W184A

Contents: *Escherichia coli* (wild strain), *Klebsiella pneumoniae* (wild strain), *Enterococcus faecium* (NCIMB 12672), *Clostridium perfringens* (wild strain), *Lactococcus lactis* (wild strain), *Pseudomonas putida* (wild strain)

Expected Results:

All counts are expressed as colony forming units (cfu) per 100mL except the colony counts at 37°C/48h and 22°C/72h which are cfu per mL.

The fixed standard deviation value (σ_{pt} value) used for calculation of the z-scores is **0.35** for all parameters.

Parameter	Coliform bacteria	E.coli	Enterococci	P.aeruginosa	C.perfringens	Colony count 37°C/48h	Colony count 22°C/72h
FEPTU median	34	30	64	0	58	19	27
No. results returned	142	145	129	110	102	127	124
Assigned value (Participants median all results)	47	38	67	0	61	19	23
Uncertainty of assigned value*	0.02	0.02	0.01	N/A	0.02	0.02	0.01
Participants Algorithm A mean (all results)	44	36	67	0	61	18	23
Expected Range	15 - 147	12 - 120	1 - 212	N/A	20 - 202	6 - 60	7 - 73
Standard deviation** (log ₁₀)	0.22	0.21	0.09	N/A	0.16	0.19	0.12
No of outlying counts	13	14	8	N/A	11	20	7
False positives	N/A	N/A	N/A	12	N/A	N/A	N/A
False negatives	1	2	5	N/A	3	0	0
Your result							
Score for performance assessment							
Z-score							
Analyst 2 Result							
Analyst 2 Z-score							
Analyst 3 Result							
Analyst 3 Z-score							

* $U(X_{pt})$ is based on results transformed to a log₁₀ scale

** Robust S^* based on median absolute deviation about the participants' median ($MAD\theta$) and is based on logged data

Total sent samples	154
Not examined	4
Non returns	5
Late returns	0

Sample: W184B

Contents: *Enterobacter cloacae* (wild strain), *Escherichia coli* (wild strain), *Pseudomonas aeruginosa* (NCTC 10332), *Clostridium sordellii* (wild strain), *Cryptococcus albidus* (wild strain)

Expected Results:

All counts are expressed as colony forming units (cfu) per 100mL except the colony counts at 37°C/48h and 22°C/72h which are cfu per mL.

The fixed standard deviation value (σ_{pt} value) used for calculation of the z-scores is **0.35** for all parameters.

Parameter	Coliform bacteria	E.coli	Enterococci	P.aeruginosa	C.perfringens	Colony count 37°C/48h	Colony count 22°C/72h
FEPTU median	54	20	0	57	0		26
No. results returned	141	144	129	110	102	126	123
Assigned value (Participants median all results)	67	24	0	36		1	11
Uncertainty of assigned value*	0.02	0.02	N/A	0.02	N/A	0.05	0.07
Participants Algorithm A mean (all results)	65	24	0	34		0	9
Expected Range	21 - 212	7 - 74	N/A	11 - 112	N/A	0 - 6	1 - 35
Standard deviation** (log ₁₀)	0.16	0.18	N/A	0.2	N/A	0.45	0.59
No of outlying counts	7	7	N/A	12	N/A	12	22
False positives	N/A	N/A	1	N/A	8	N/A	N/A
False negatives	2	2	N/A	5	N/A	0	16
Your result							
Score for performance assessment							
Z-score							
Analyst 2 Result							
Analyst 2 Z-score							
Analyst 3 Result							
Analyst 3 Z-score							

* $U(X_{pt})$ is based on results transformed to a log₁₀ scale

** Robust S^* based on median absolute deviation about the participants' median ($MADe$) and is based on logged data

Total sent samples	154
Not examined	5
Non returns	5
Late returns	0

Sample: W184C

Contents: *Enterococcus faecalis* (wild strain), *Pseudomonas aeruginosa* (wild strain), *Clostridium perfringens* (wild strain), *Lactococcus lactis* (wild strain), *Providencia rettgeri* (NCTC 7475), *Staphylococcus epidermidis* (wild strain)

Expected Results:

All counts are expressed as colony forming units (cfu) per 100mL except the colony counts at 37°C/48h and 22°C/72h which are cfu per mL.

The fixed standard deviation value (σ_{pt} value) used for calculation of the z-scores is **0.35** for all parameters.

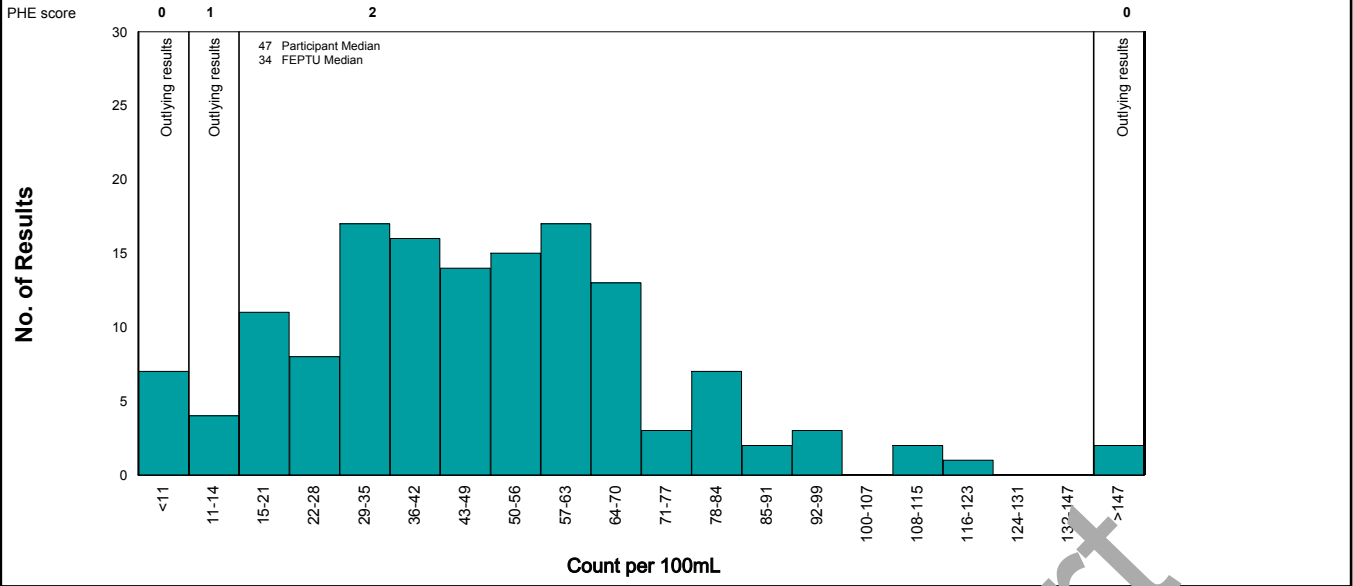
Parameter	Coliform bacteria	E.coli	Enterococci	P.aeruginosa	C.perfringens	Colony count 37°C/48h	Colony count 22°C/72h
FEPTU median	0	0	39	31	54	14	14
No. results returned	140	143	130	112	103	125	123
Assigned value (Participants median all results)	0	0	44	26	6	14	12
Uncertainty of assigned value*	N/A	N/A	0.01	0.02	0.0	0.02	0.02
Participants Algorithm A mean (all results)	0	0	44	26	7	13	12
Expected Range	N/A	N/A	4 - 139	8 - 82	19 - 193	4 - 44	4 - 38
Standard deviation** (log ₁₀)	N/A	N/A	0.1	0.19	0.13	0.21	0.15
No of outlying counts	N/A	N/A	2	4	8	13	7
False positives	5	0	N/A	N/A	N/A	N/A	N/A
False negatives	N/A	N/A	0	1	3	1	0
Your result							
Score for performance assessment							
Z-score							
Analyst 2 Result							
Analyst 2 Z-score							
Analyst 3 Result							
Analyst 3 Z-score							

* $U(X_{pt})$ is based on results transformed to a log₁₀ scale

** Robust S^* based on median absolute deviation about the participants' median ($MADe$) and is based on logged data

Total sent samples	154
Not examined	5
Non returns	5
Late returns	0

W184A: Coliform bacteria



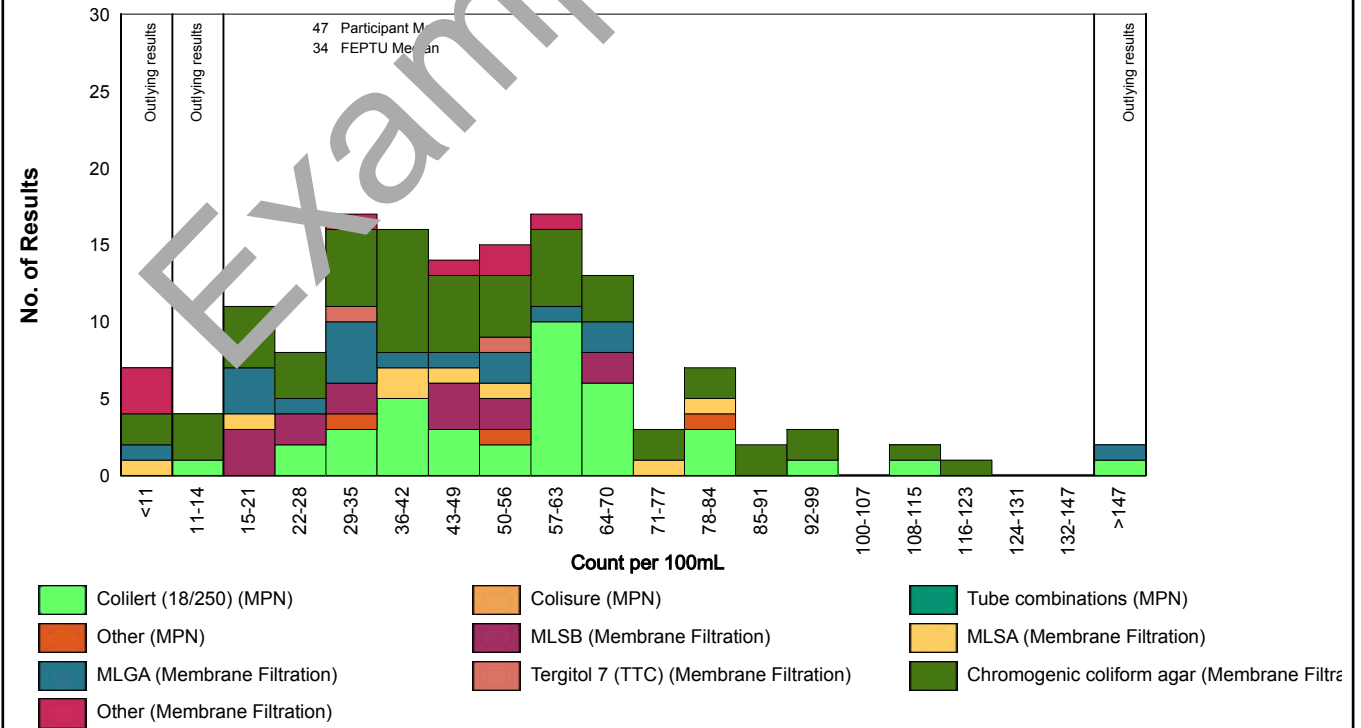
Method based presentation

W184A : Coliform bacteria

FEPTU Method: Chromogenic coliform agar

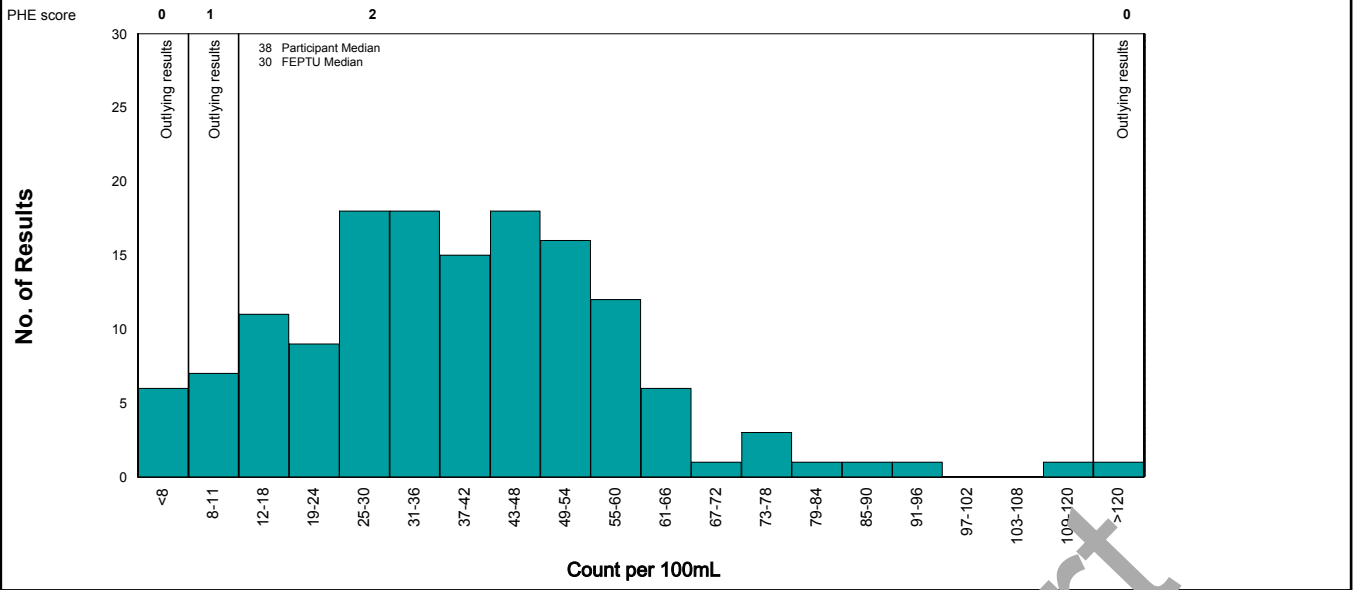
Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
Colilert (18/250)	38	0	26	32	0.15	11 - 165
Colisure	0	0	0			
Tube combinations	0	0	0			
Other (MPN)	3	0	2			
MLSB	14	0	10	39	0.21	20 - 68
MLSA	8	0	5			
MLGA	17	0	11	32	0.27	7 - 220
Tergitol 7 (TTC)	2	0	1			
Chromogenic coliform agar	52	0	36	45	0.26	6 - 120
Other (Membrane filtration)	8	0	5			

W184A: Coliform bacteria



W184A: *Escherichia coli*

PHE score



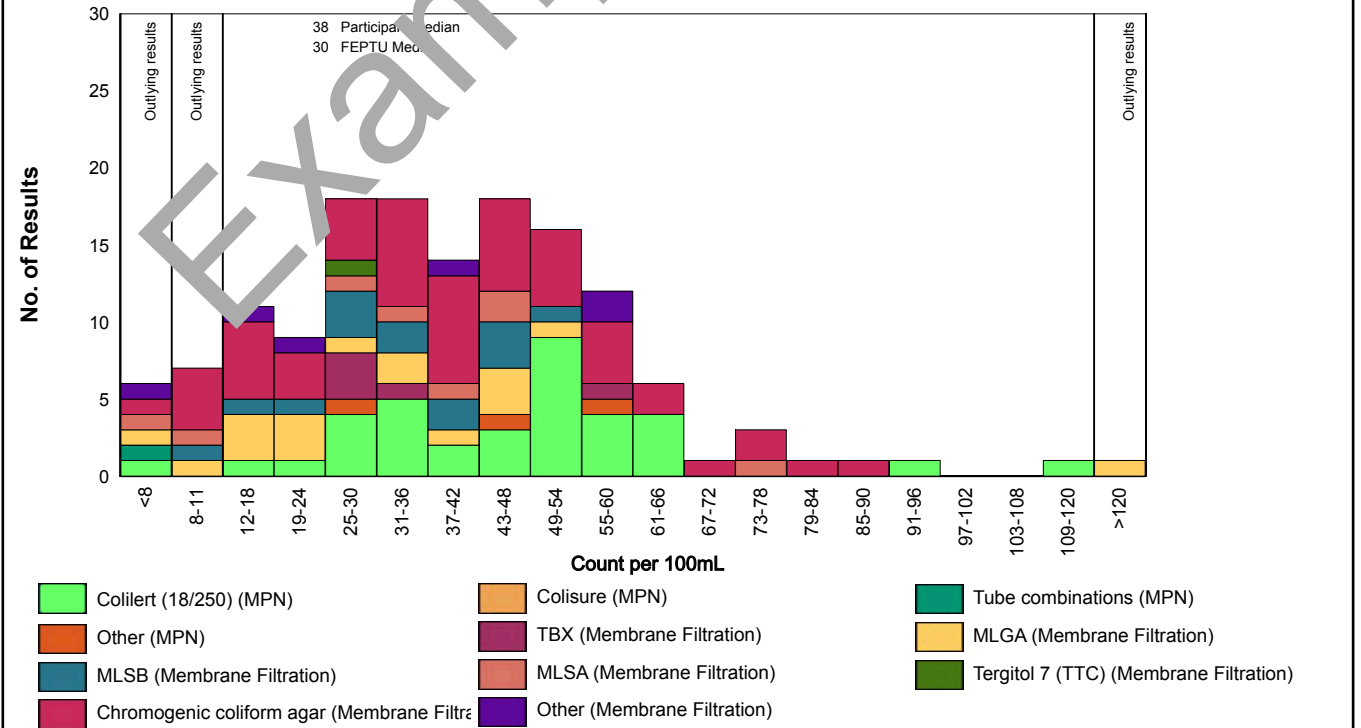
Method based presentation

W184A : *Escherichia coli*

FEPTU Method: Chromogenic coliform agar

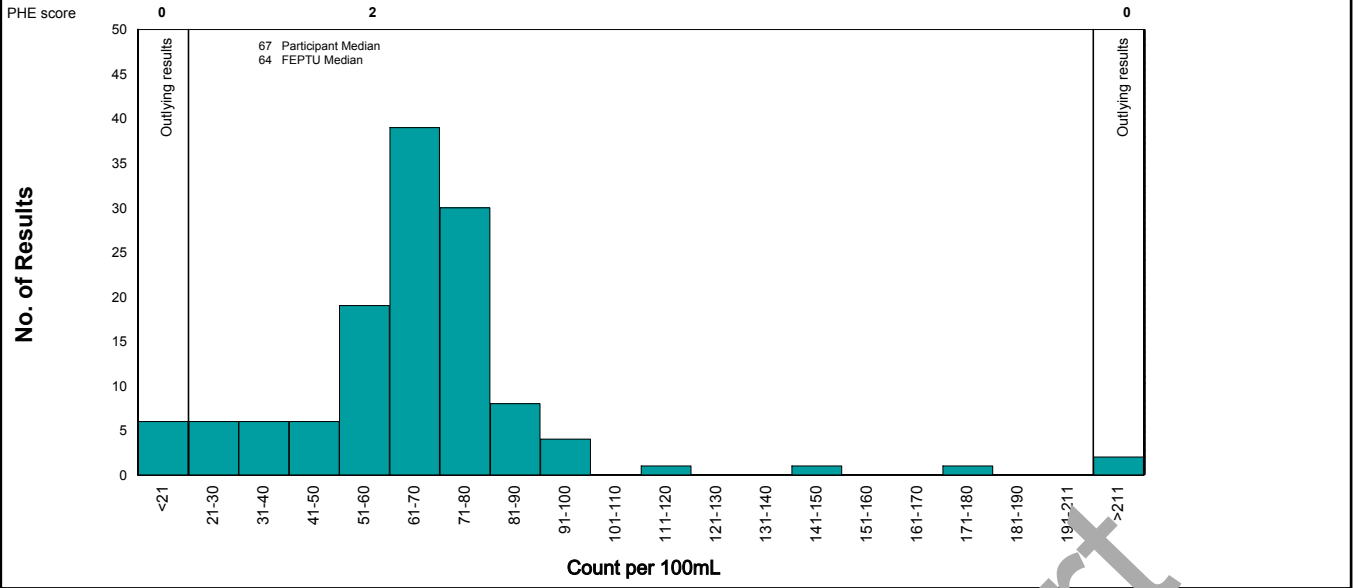
Method	Number of Results	Excluded Results	Percentage of the total	Median	Range Reported S* (Log ₁₀)	Range Reported
Colilert (18/250)	36	0	25	25	0.15	1 - 118
Colisure	0	0	0			
Tube combinations	0	1	0			
Other (MPN)	3	0	2			
TBX	5	0	3			
MLGA	17	0	11	25	0.29	2 - 160
MLSB	14	0	9	35	0.17	9 - 51
MLSA	8	0	5			
Tergitol 7 (TTC)	1	0	0			
Chromogenic coliform agar	53	0	37	39	0.22	5 - 90
Other (Membrane filtration)	6	0	4			

W184A: *Escherichia coli*



W184A: Enterococci

PHE score



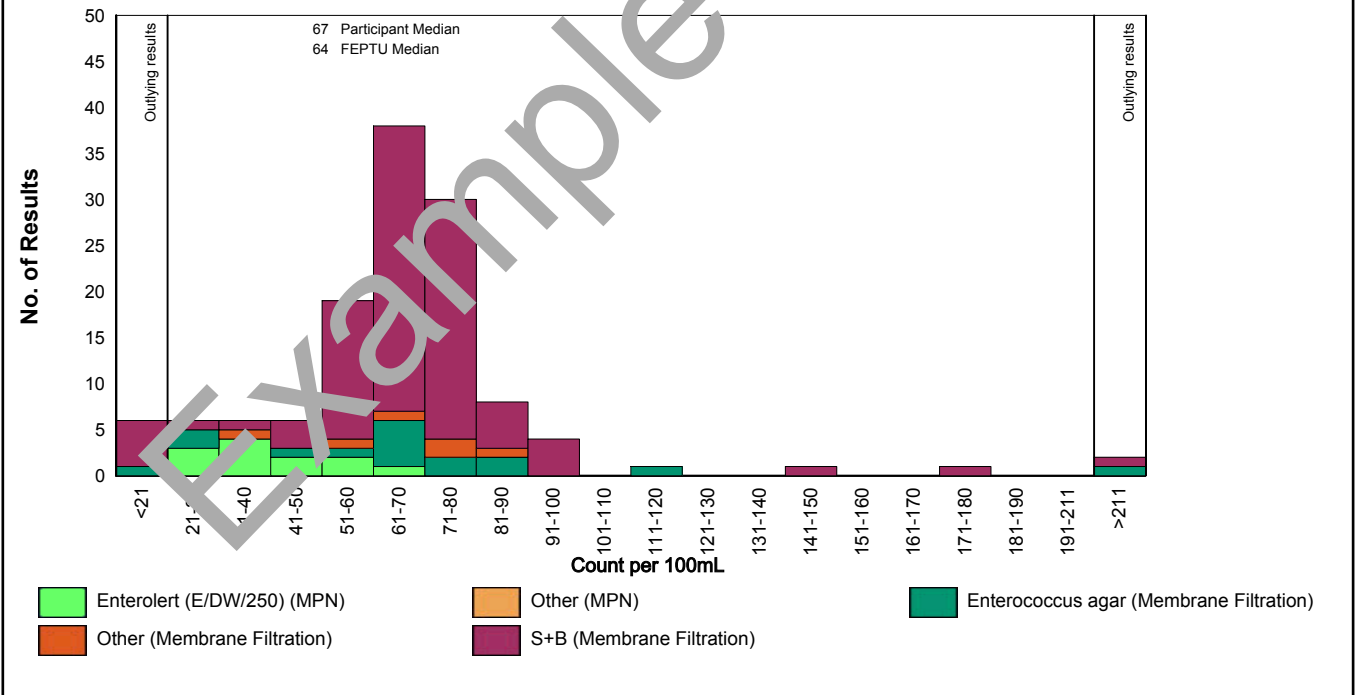
Method based presentation

W184A : Enterococci

FEPTU Method: S+B

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range (Log ₁₀) S*	Range Reported
Enterolert (E/DW/250)	12	0	9	23	0.16	21 - 70
Other (MPN)	0	0	0			
Enterococcus agar	16	0	12	67	0.15	0 - 250
Other (Membrane filtration)	6	0	4			
S+B	94	0	71	69	0.06	0 - 270

W184A: Enterococci



W184A: *Pseudomonas aeruginosa*

No data for graph

Method based presentation

W184A : *Pseudomonas aeruginosa*

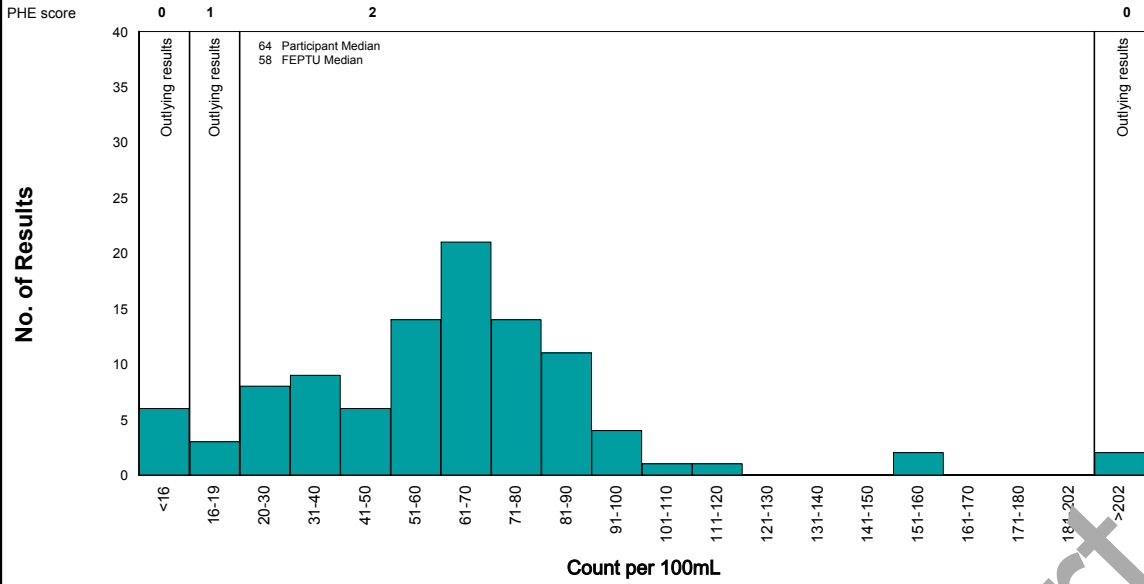
FEPTU Method: PCN

Method	Number of Results	Excluded Results	Percentage of the total	Median	Robust S* (Log ₁₀)	Range Reported
Pseudalert	5	2	5			
Other (MPN)	0	1	0			
PCN	83	4	8	0	0.00	0 - 234
Other (Membrane filtration)	10	2	10	0	0.00	0 - 0

W184A: *Pseudomonas aeruginosa*

No data for graph

W184A: Clostridium perfringens



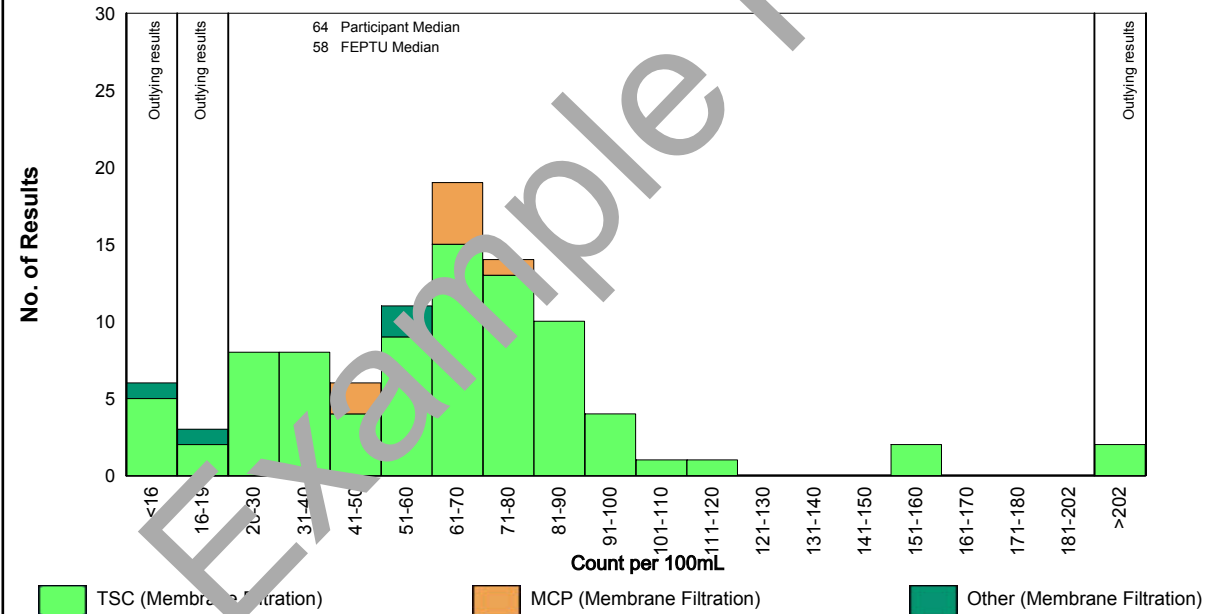
Method based presentation

W184A : Clostridium perfringens

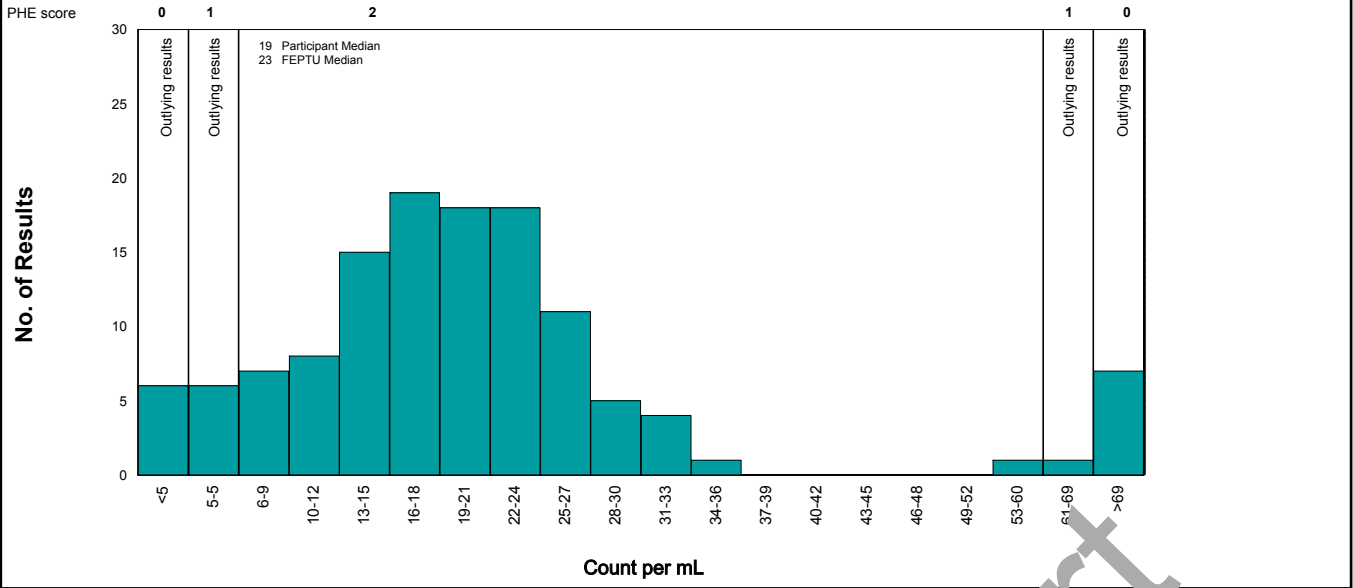
FEPTU Method: TSC

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
TSC	83	1	88	64	0.18	0 - 270
MCP	7	0	7			
Other (Membrane filtration)	4	0				

W184A: Clostridium perfringens



W184A: Colony Count 37°C/48 h



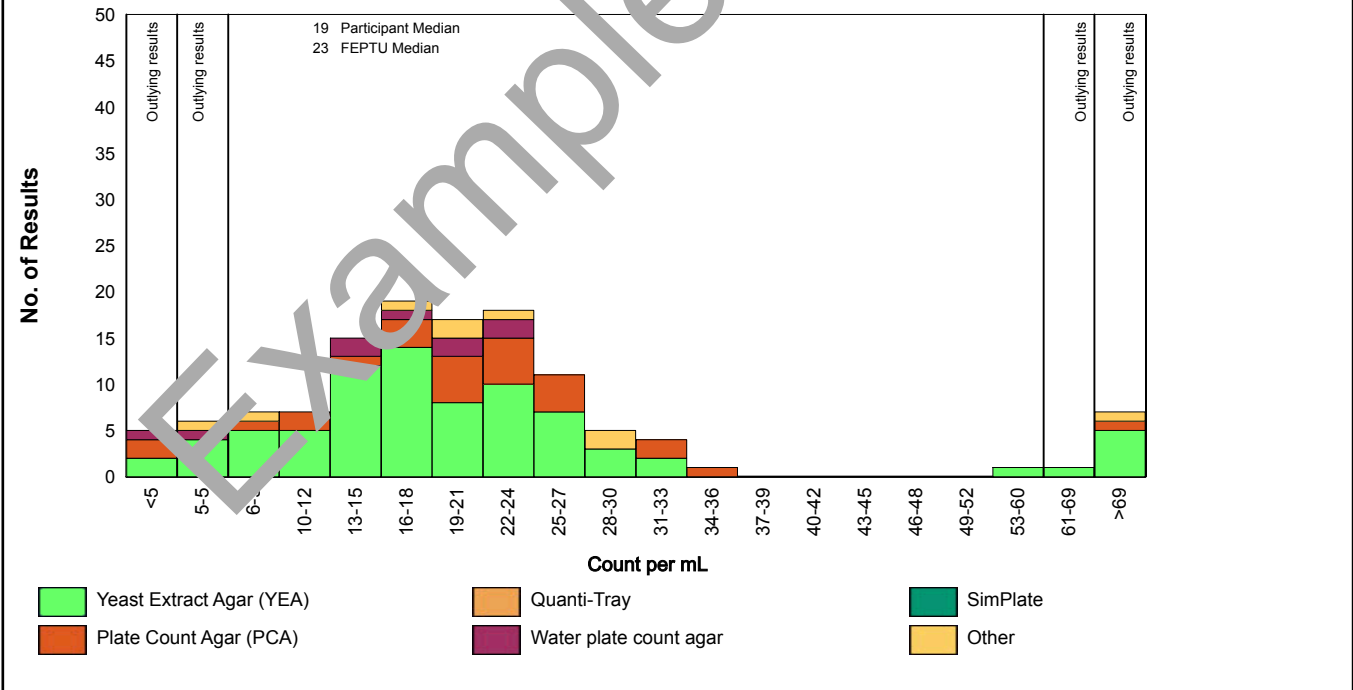
Method based presentation

W184A : Colony Count 37°C/48 h

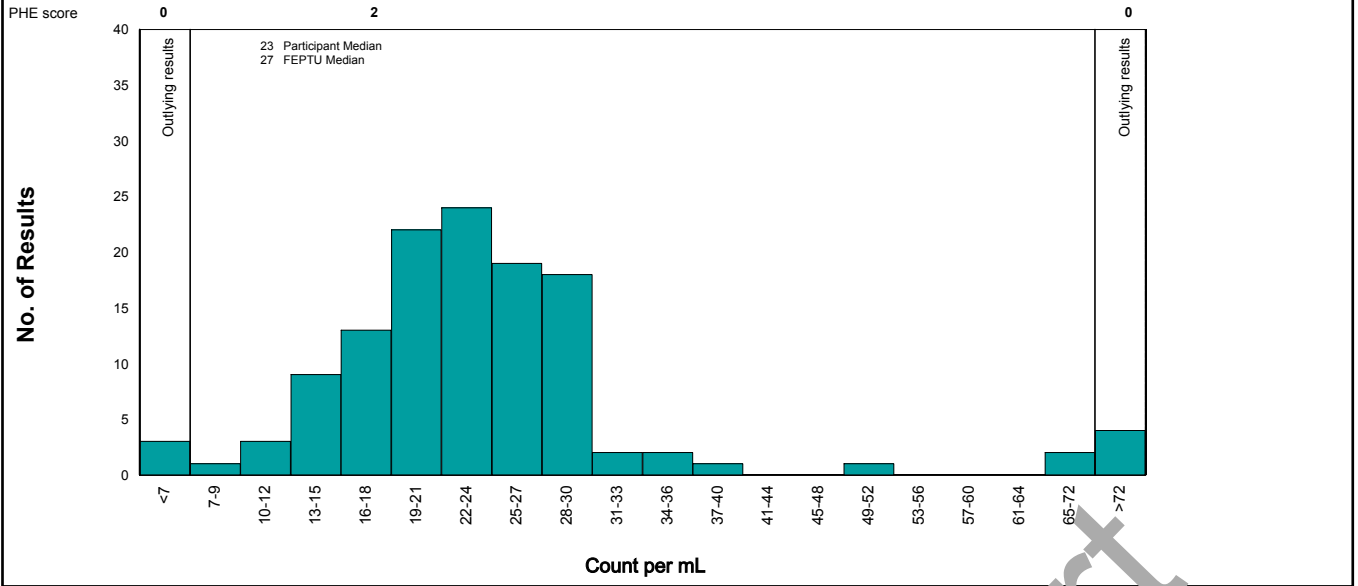
FEPTU Method: Yeast Extract Agar (YEA)

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range (Log ₁₀) S*	Range Reported
Yeast Extract Agar (YEA)	79	0	63	23	0.21	3 - 1845
Quanti-Tray	0	0	0			
SimPlate	0	0	0			
Plate Count Agar (PCA)	27	0	21	21	0.13	3 - 270
Water plate count agar	9	0	7			
Other	9	0	7			

W184A: Colony Count 37°C/48 h



W184A: Colony Count 22°C/72 h



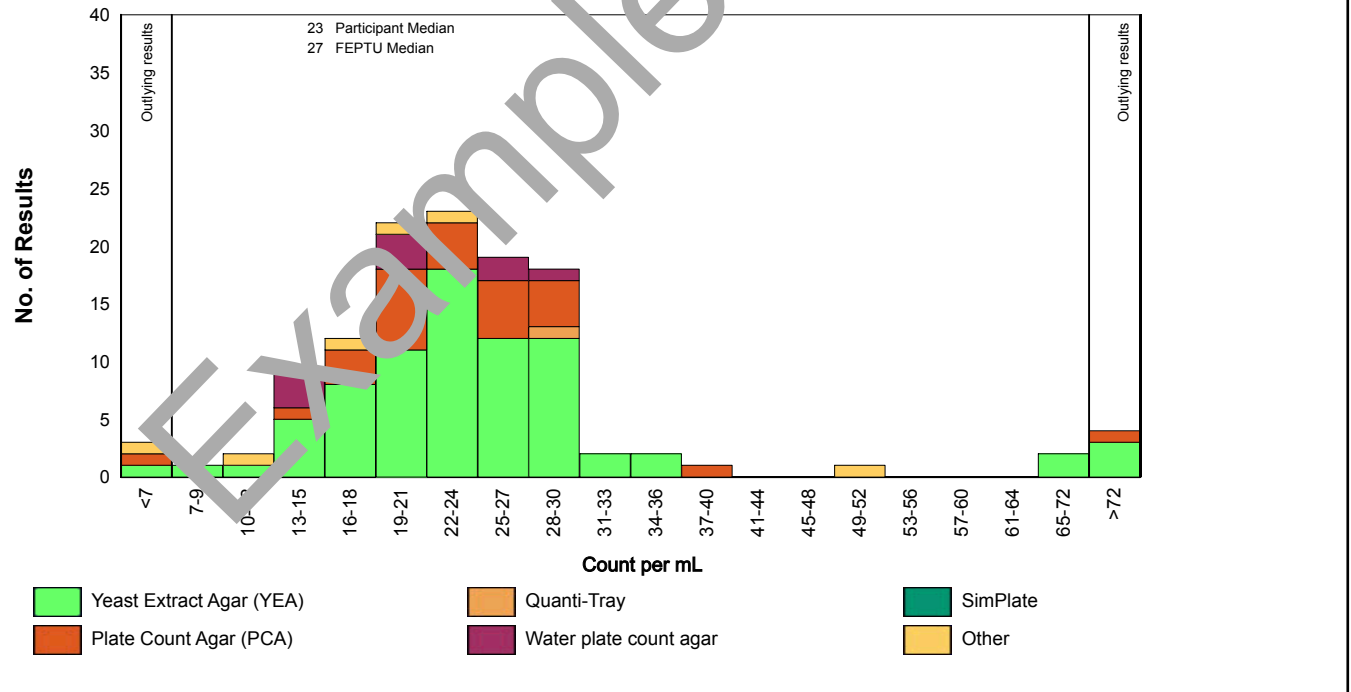
Method based presentation

W184A : Colony Count 22°C/72 h

FEPTU Method: Yeast Extract Agar (YEA)

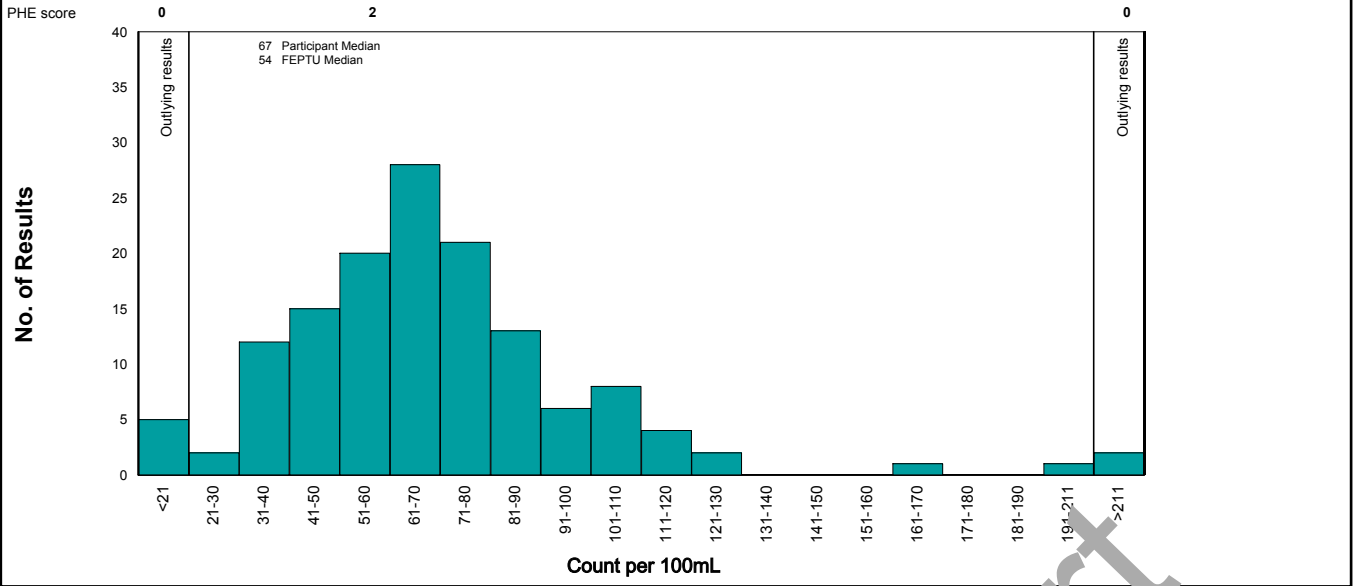
Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
Yeast Extract Agar (YEA)	78	0	64	23	0.12	6 - 81
Quanti-Tray	1	0	0			
SimPlate	0	0	0			
Plate Count Agar (PCA)	27	0	22	22	0.10	5 - 270
Water plate count agar	9	0				
Other	6	0	4			

W184A: Colony Count 22°C/72 h



W184B: Coliform bacteria

PHE score



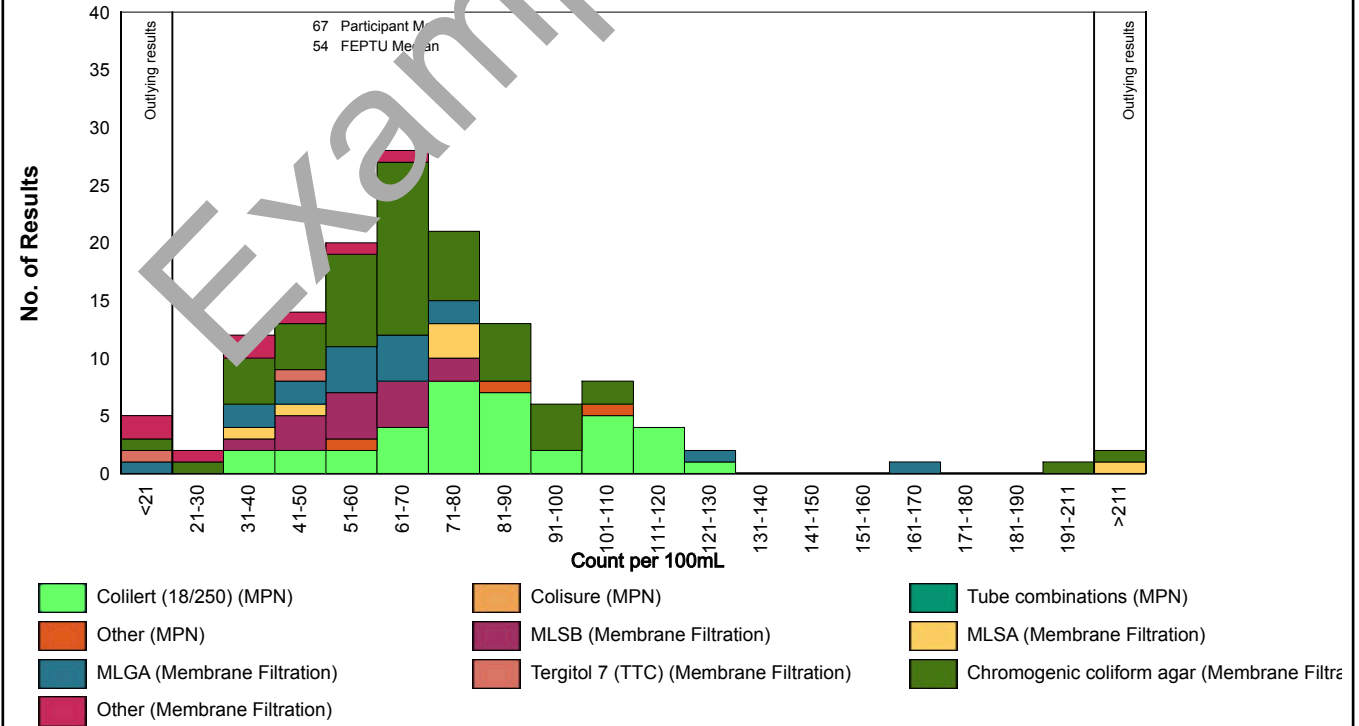
Method based presentation

W184B : Coliform bacteria

FEPTU Method: Chromogenic coliform agar

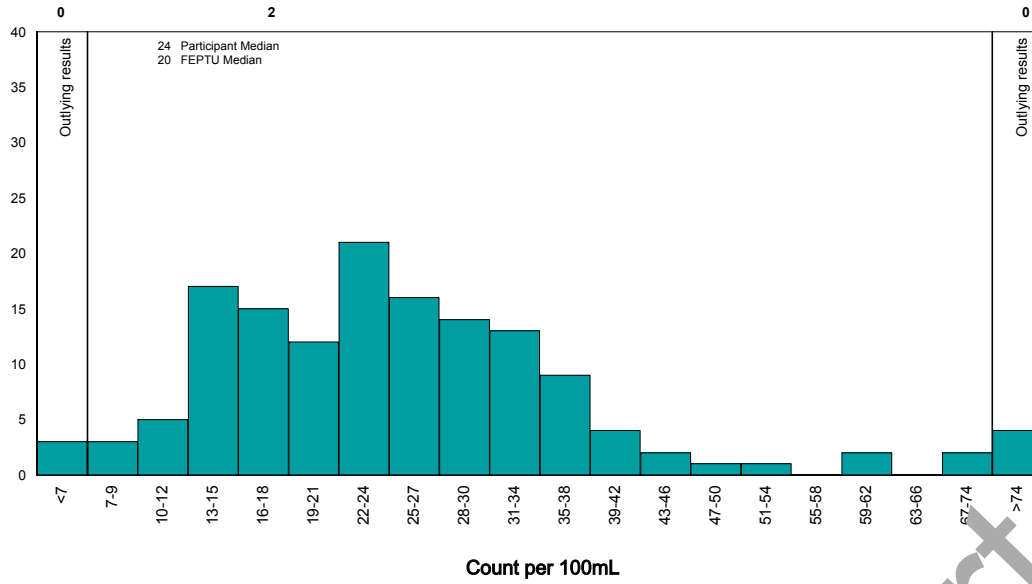
Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
Colilert (18/250)	37	1	26	31	0.13	32 - 130
Colisure	0	0	0			
Tube combinations	0	0	0			
Other (MPN)	3	0	2			
MLSB	14	0	10	56	0.11	40 - 79
MLSA	6	0	4			
MLGA	17	0	12	60	0.16	18 - 170
Tergitol 7 (TTC)	2	0	1			
Chromogenic coliform agar	52	1	37	67	0.13	8 - 280
Other (Membrane filtration)	8	0	5			

W184B: Coliform bacteria



W184B: *Escherichia coli*

PHE score



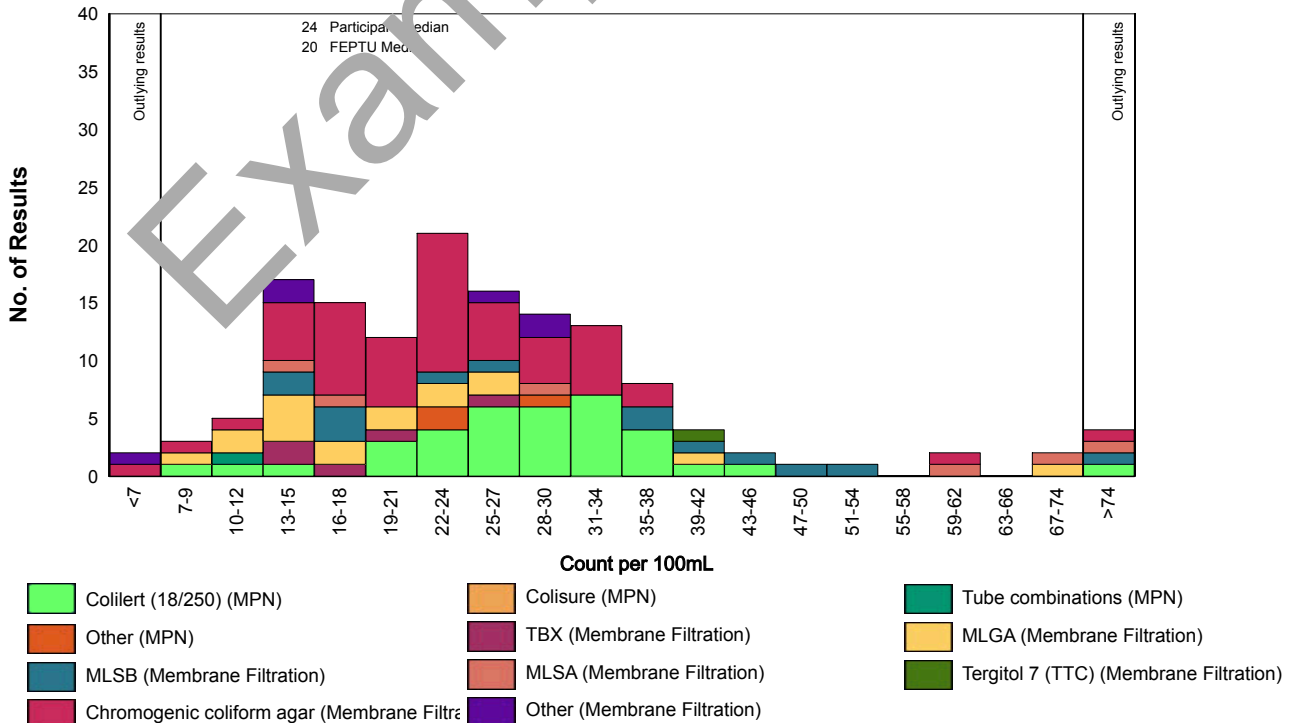
Method based presentation

W184B : *Escherichia coli*

FEPTU Method: Chromogenic coliform agar

Method	Number of Results	Excluded Results	Percentage of the total	Median	Result S* (Log ₁₀)	Range Reported
Colilert (18/250)	36	0	25	22	0.12	8 - 95
Colisure	0	0	0			
Tube combinations	1	0	1			
Other (MPN)	3	0	2			
TBX	5	0	4			
MLGA	17	0	11	18	0.18	8 - 68
MLSB	14	0	9	31	0.27	14 - 84
MLSA	6	0	4			
Tergitol 7 (TTC)	1	0	0			
Chromogenic coliform agar	53	0	37	22	0.14	5 - 80
Other (Membrane filtration)	6	0	4			

W184B: *Escherichia coli*



W184B: Enterococci

No data for graph

Method based presentation

W184B : Enterococci

FEPTU Method: S+B

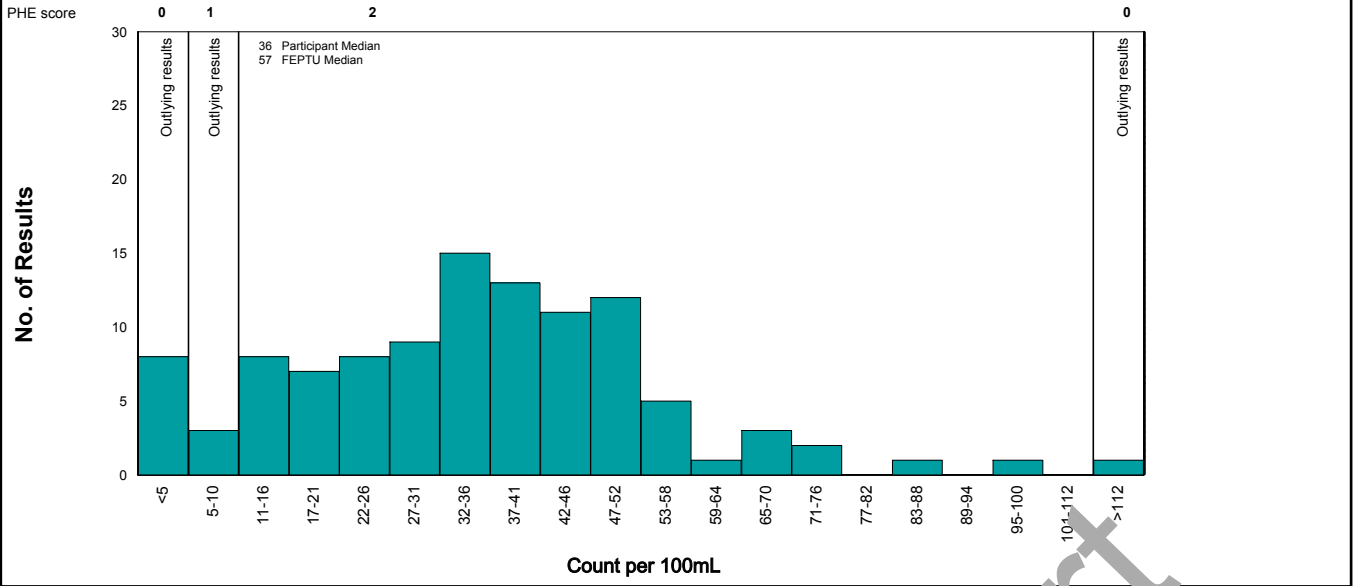
Method	Number of Results	Excluded Results	Percentage of the total	Median	Robust S* (Log ₁₀)	Range Reported
Enterolert (E/DW/250)	8	5	7			
Other (MPN)	0	0	0			
Enterococcus agar	14	2	12	0	0.00	0 - 0
Other (Membrane filtration)	5	1	4			
S+B	86	6	80	0	0.00	0 - 65

W184B: Enterococci

No data for graph

W184B: *Pseudomonas aeruginosa*

PHE score



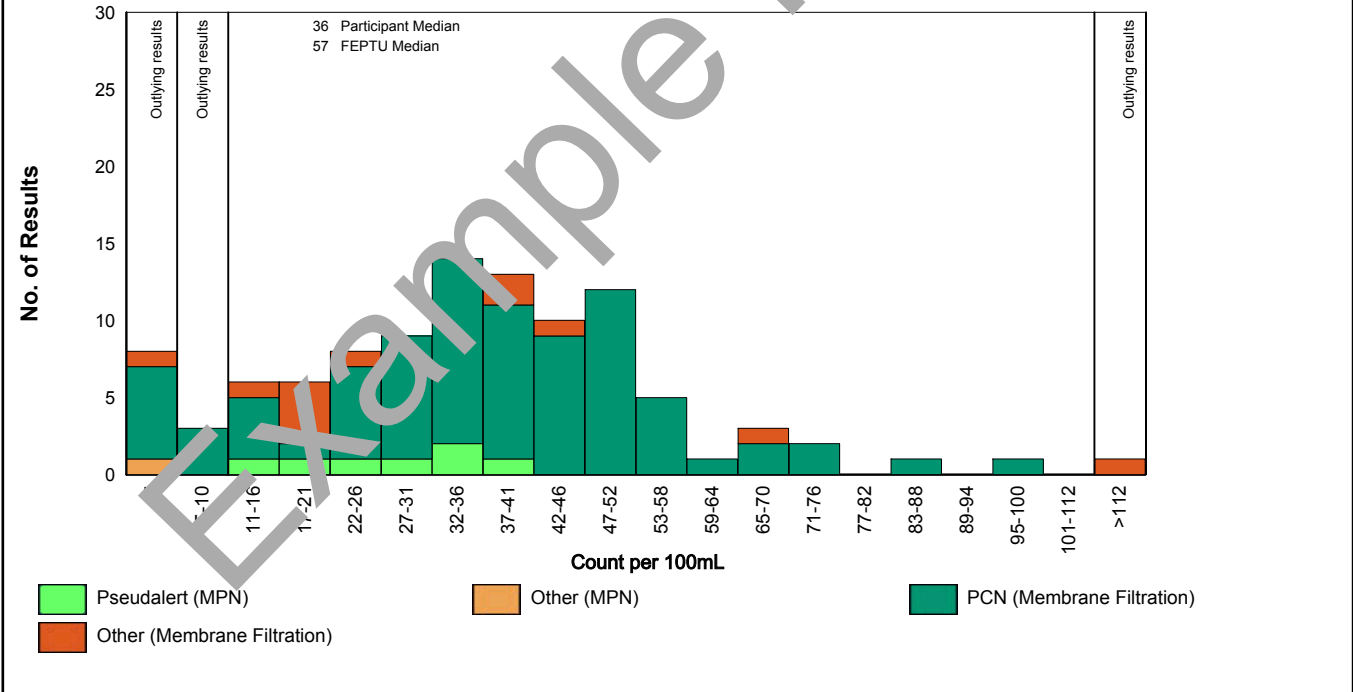
Method based presentation

W184B : *Pseudomonas aeruginosa*

FEPTU Method: PCN

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
Pseudalert	7	0	6			
Other (MPN)	0	1	0			
PCN	82	5	11	38	0.17	0 - 96
Other (Membrane filtration)	12	0	11	21	0.31	1 - 170

W184B: *Pseudomonas aeruginosa*



W184B: *Clostridium perfringens*

No data for graph

Method based presentation

W184B : *Clostridium perfringens*

FEPTU Method: TSC

Method	Number of Results	Excluded Results	Percentage of the total	Median	Robust S* (Log ₁₀)	Range Reported
TSC	77	7	87	0	0.00	0 - 72
MCP	7	0	7			
Other (Membrane filtration)	4	0	4			

W184B: *Clostridium perfringens*

No data for graph

W184B: Colony Count 37°C/48 h

No data for graph

Method based presentation

W184B : Colony Count 37°C/48 h

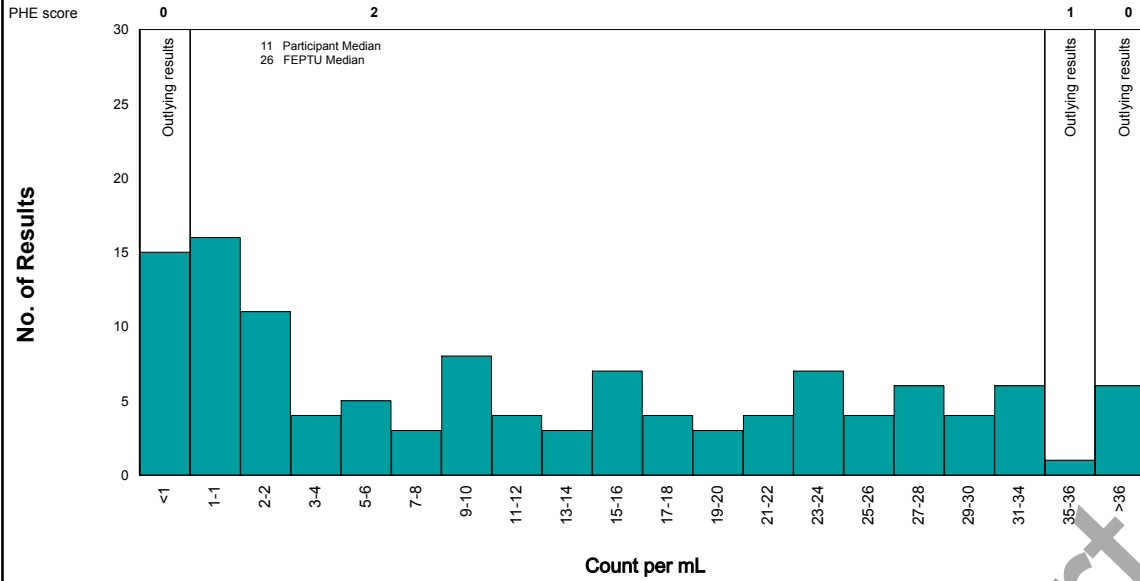
FEPTU Method: Yeast Extract Agar (YEA)

Method	Number of Results	Excluded Results	Percentage of the total	Median	Robust S* (Log ₁₀)	Range Reported
Yeast Extract Agar (YEA)	80	0	67	1	0.45	0 - 600
Quanti-Tray	0	0	0			
SimPlate	0	0	0			
Plate Count Agar (PCA)	22	4	18	2	0.27	0 - 1700
Water plate count agar	8	1	7			
Other	9	0	7			

W184B: Colony Count 37°C/48 h

No data for graph

W184B: Colony Count 22°C/72 h



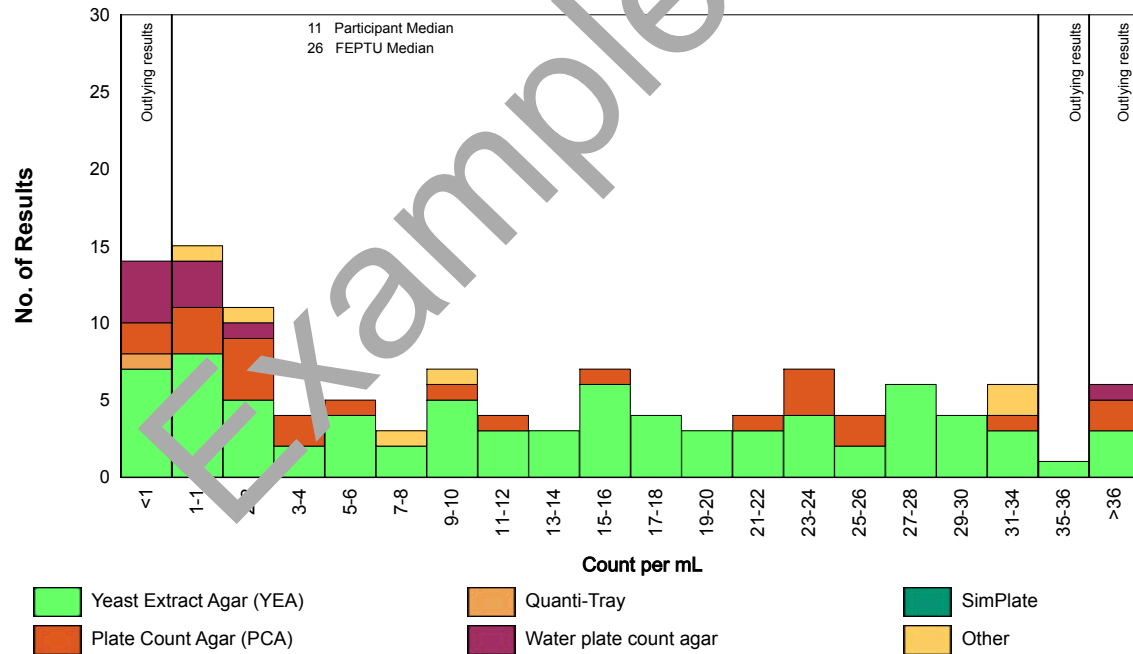
Method based presentation

W184B : Colony Count 22°C/72 h

FEPTU Method: Yeast Extract Agar (YEA)

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
Yeast Extract Agar (YEA)	78	1	67	15	0.40	0 - 60
Quanti-Tray	1	0	0			
SimPlate	0	0	0			
Plate Count Agar (PCA)	23	3	20	9	0.69	0 - 1000
Water plate count agar	7	2	6			
Other	6	0	5			

W184B: Colony Count 22°C/72 h



W184C: Coliform bacteria

No data for graph

Method based presentation

W184C : Coliform bacteria

FEPTU Method: Chromogenic coliform agar

Method	Number of Results	Excluded Results	Percentage of the total	Median	Robust S* (Log ₁₀)	Range Reported
Colilert (18/250)	32	7	25	0	0.00	0 - 0
Colisure	0	0	0			
Tube combinations	0	0	0			
Other (MPN)	3	0	2			
MLSB	13	0	10	0	0.00	0 - 0
MLSA	6	0	4			
MLGA	17	0	13	0	0.00	0 - 0
Tergitol 7 (TTC)	2	0	1			
Chromogenic coliform agar	47	10	37	0	0.00	0 - 45
Other (Membrane filtration)	7	1	5			

W184C: Coliform bacteria

No data for graph

W184C: *Escherichia coli*

No data for graph

Method based presentation

W184C : *Escherichia coli*

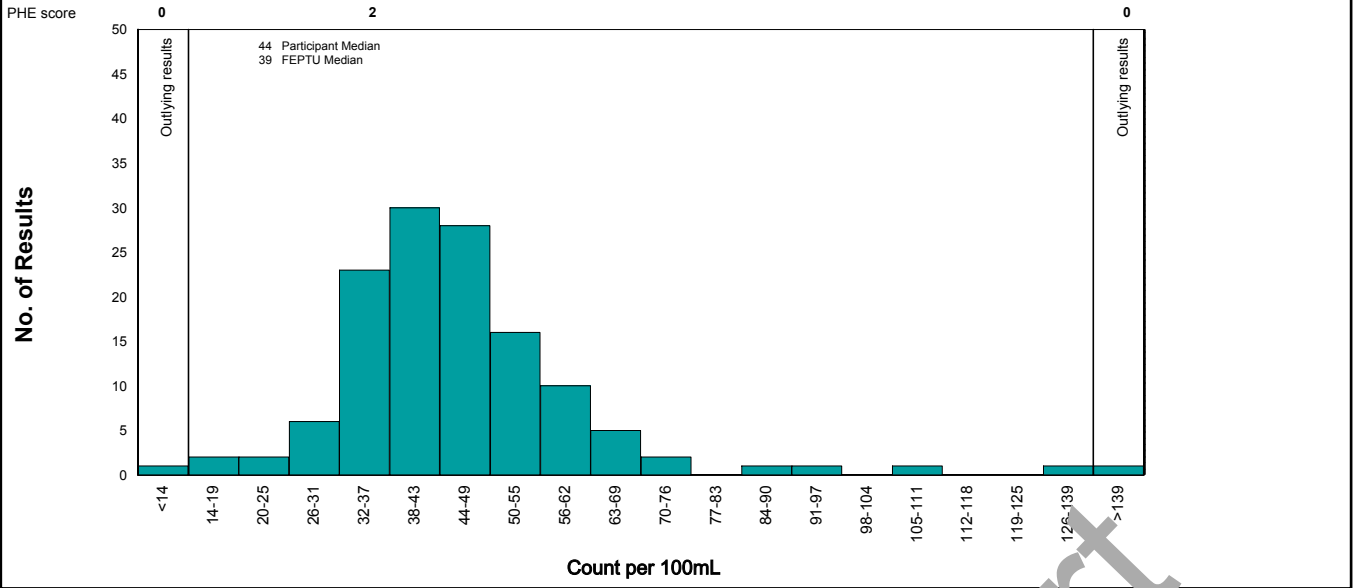
FEPTU Method: Chromogenic coliform agar

Method	Number of Results	Excluded Results	Percentage of the total	Median	Robust S* (Log ₁₀)	Range Reported
Colilert (18/250)	31	6	24	0	0.00	0 - 0
Colisure	0	0	0			
Tube combinations	0	1	0			
Other (MPN)	3	0	2			
TBX	4	1	3			
MLGA	17	0	13	0	0.00	0 - 0
MLSB	13	0	10	0	0.00	0 - 0
MLSA	7	0	5			
Tergitol 7 (TTC)	1	0	0			
Chromogenic coliform agar	48	6	37	0	0.00	0 - 0
Other (Membrane filtration)	5	1	3			

W184C: *Escherichia coli*

No data for graph

W184C: Enterococci



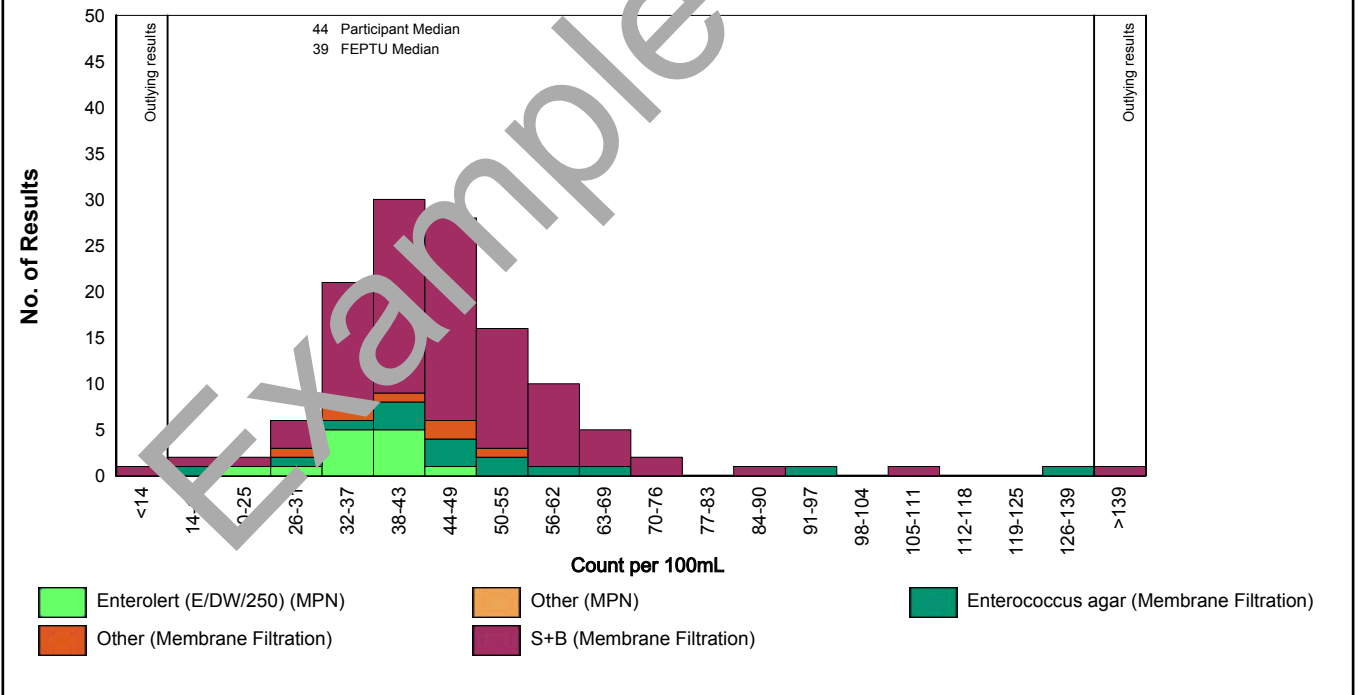
Method based presentation

W184C : Enterococci

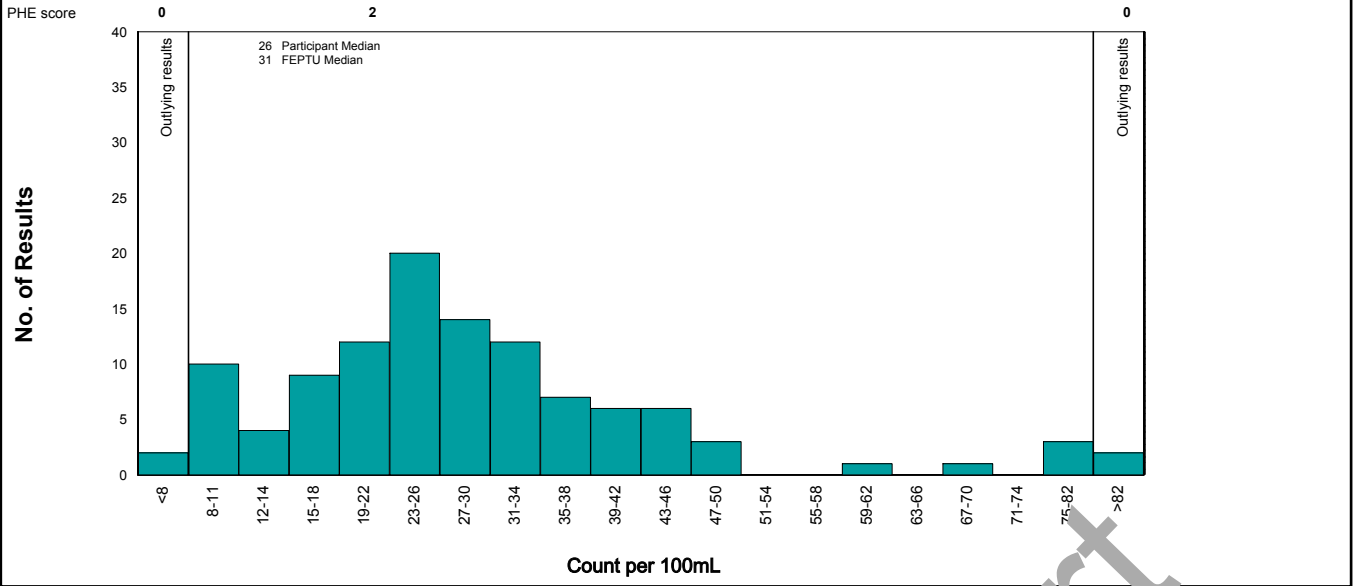
FEPTU Method: S+B

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range (Log ₁₀) S*	Range Reported
Enterolert (E/DW/250)	13	0	10	27	0.08	24 - 47
Other (MPN)	0	0	0			
Enterococcus agar	15	0	11	45	0.14	15 - 136
Other (Membrane filtration)	7	0	5			
S+B	93	0	70	45	0.10	1 - 180

W184C: Enterococci



W184C: *Pseudomonas aeruginosa*



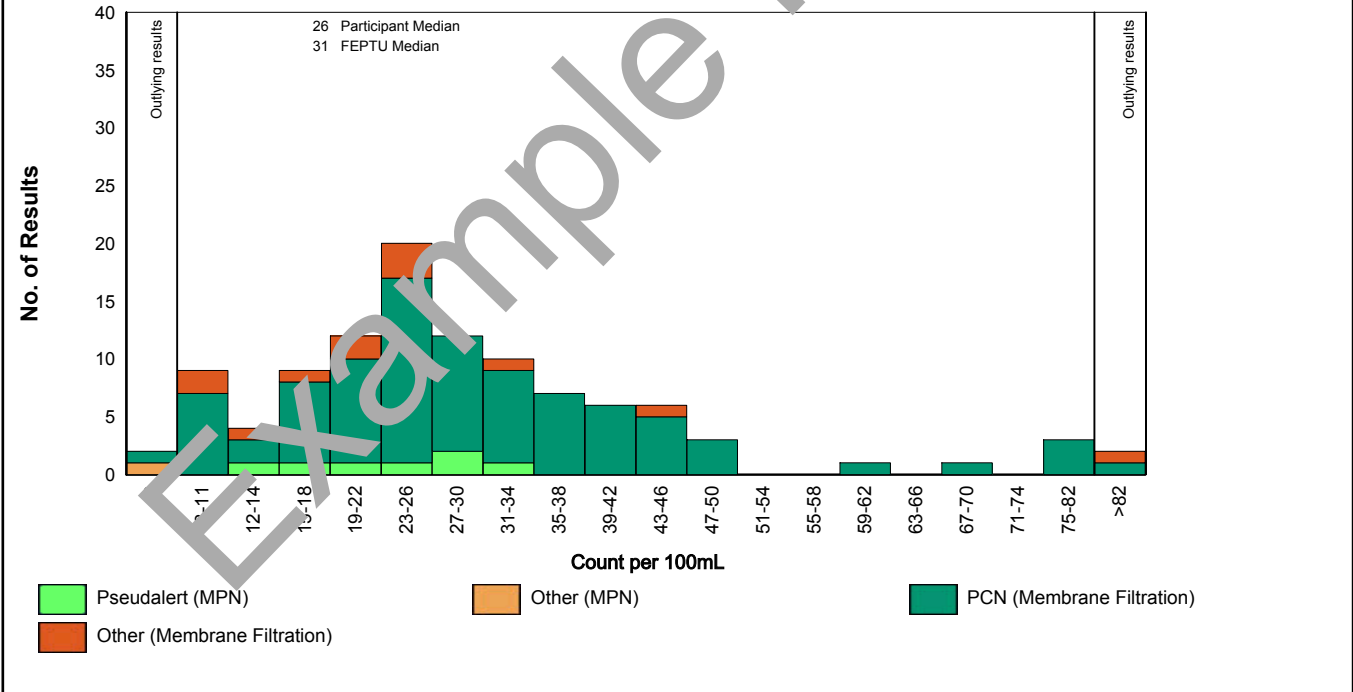
Method based presentation

W184C : *Pseudomonas aeruginosa*

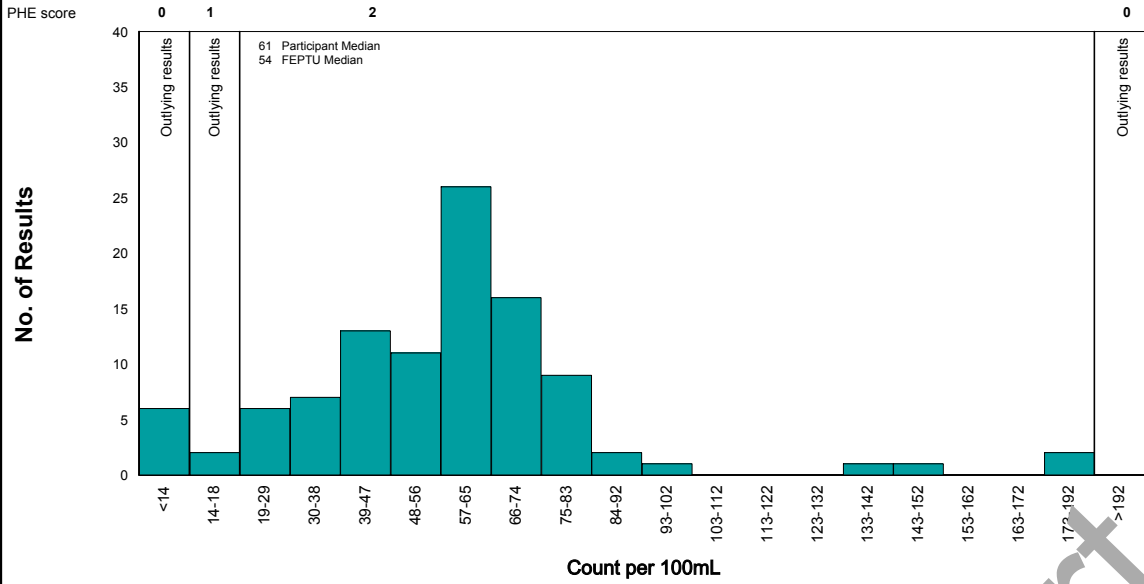
FEPTU Method: PCN

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
Pseudalert	7	0	6			
Other (MPN)	1	0	0			
PCN	86	2	11	27	0.19	0 - 80
Other (Membrane filtration)	12	0	11	22	0.25	10 - 110

W184C: *Pseudomonas aeruginosa*



W184C: Clostridium perfringens



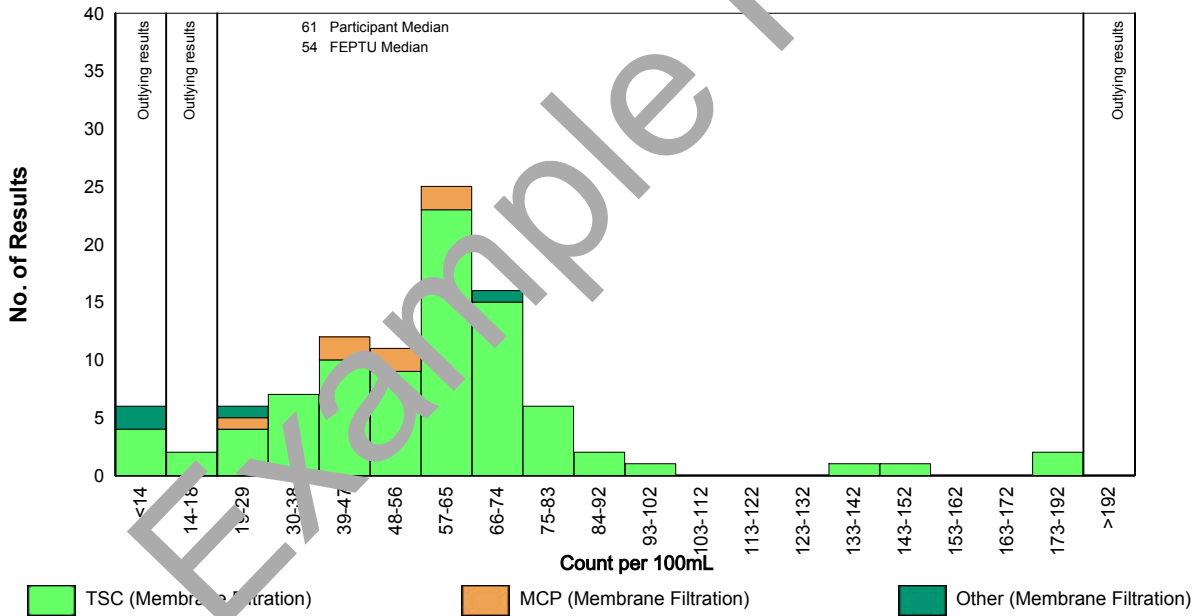
Method based presentation

W184C : Clostridium perfringens

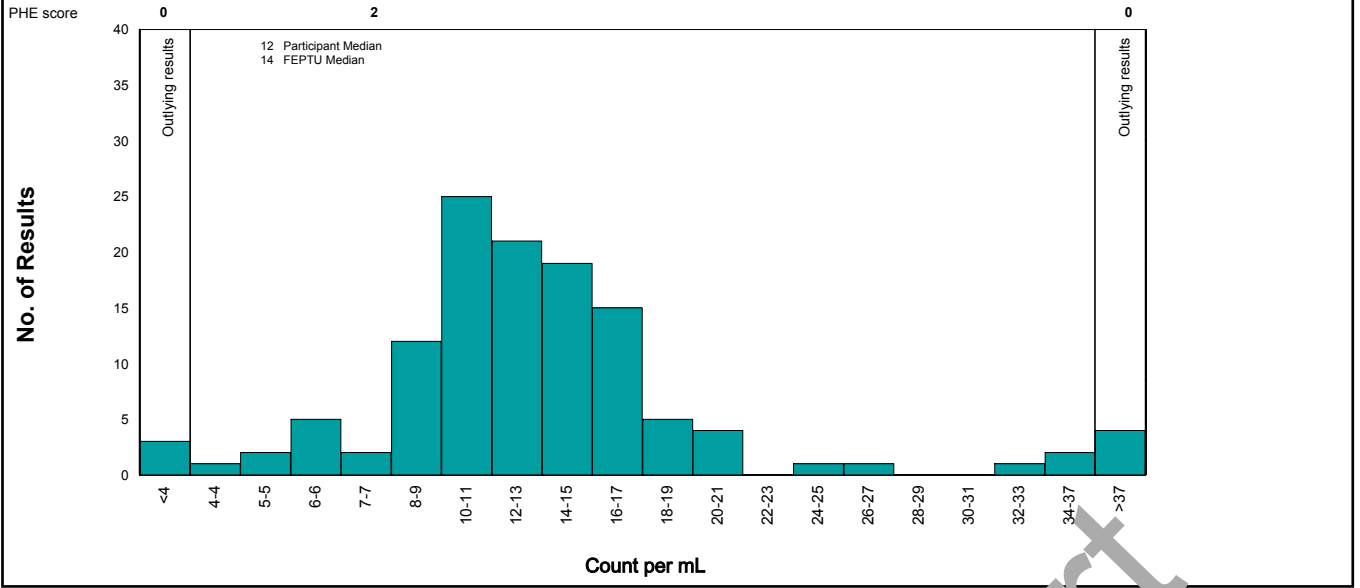
FEPTU Method: TSC

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
TSC	86	1	88	22	0.12	0 - 180
MCP	7	0	7			
Other (Membrane filtration)	4	0				

W184C: Clostridium perfringens



W184C: Colony Count 22°C/72 h



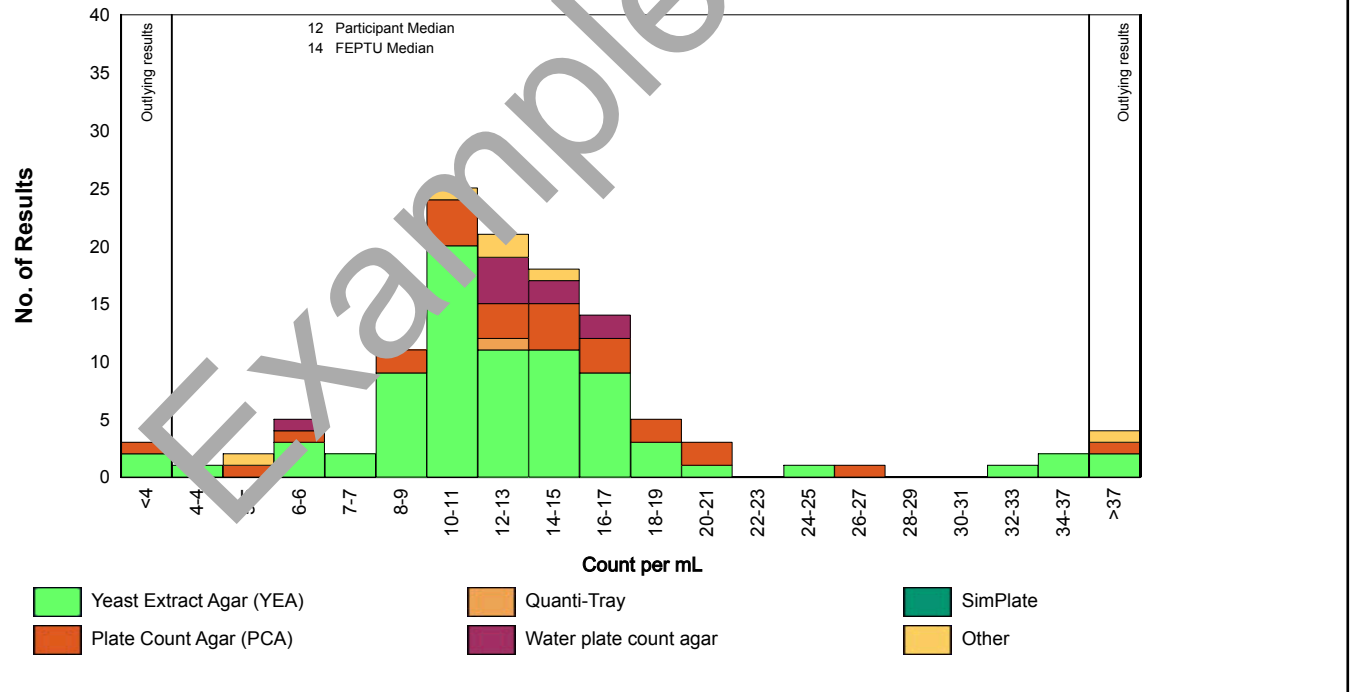
Method based presentation

W184C : Colony Count 22°C/72 h

FEPTU Method: Yeast Extract Agar (YEA)

Method	Number of Results	Excluded Results	Percentage of the total	Median	Range S* (Log ₁₀)	Range Reported
Yeast Extract Agar (YEA)	78	0	65	12	0.14	2 - 42
Quanti-Tray	1	0	0			
SimPlate	0	0	0			
Plate Count Agar (PCA)	25	1	21	14	0.17	1 - 31000
Water plate count agar	9	0				
Other	6	0	5			

W184C: Colony Count 22°C/72 h



Performance Assessment Sheet

Distribution	Sample	Coliform bacteria score	<i>Escherichia coli</i> score	Enterococci score	<i>Pseudomonas aeruginosa</i> score	<i>Clostridium perfringens</i> score	Colony Count 37°C/48 h score	Colony Count 22°C/72 h score
W184	W184A							
	W184B							
	W184C							
W183	W183A							
	W183B							
	W183C							
W182	W182A							
	W182B							
	W182C							
W181	W181A							
	W181B							
	W181C							
W180	W180A							
	W180B							
	W180C							
W179	W179A							
	W179B							
	W179C							
Total maximum possible score								
Total percentage								

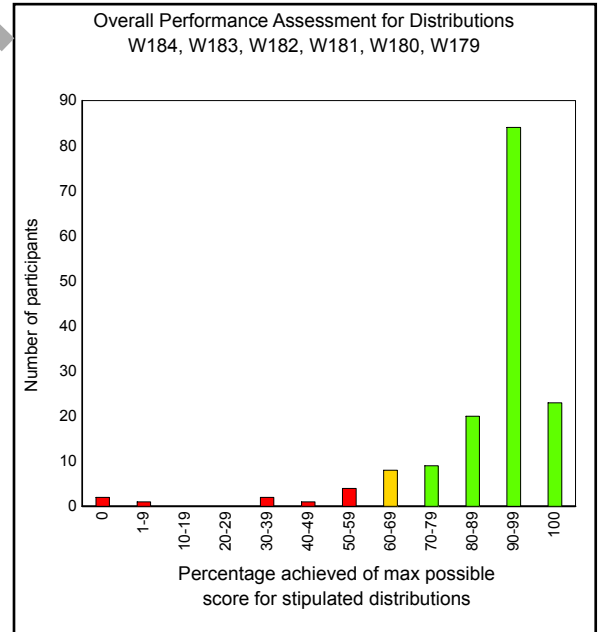
Performance Assessment Comment:

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.

Cummulative scores are calculated from the current and previous **five** distributions for the Drinking Water Scheme. Participants' cummulative scores for each of the examinations are compared with the maximum possible scores after every distribution.

Your overall performance with the enumerations of low levels of indicator organisms in drinking water proficiency testing samples for the current and last five distributions is collated in the chart to the right.



Performance Assessment Comment:

Laboratories that achieve less than 70% of the maximum possible score are likely to be experiencing significant problems with their examinations and are advised to:

- refer to the relevant distribution reports for sample-specific comments
- refer to the website guidance documents: <https://www.gov.uk/government/collections/external-quality-assessment-ega-and-proficiency-testing-pt-for-food-water-and-environmental-microbiology>
- contact the organisers for advice

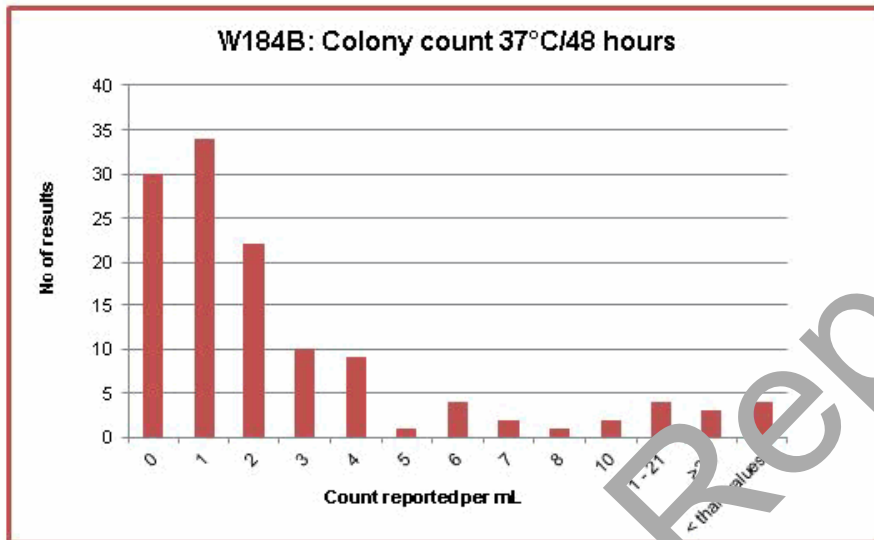
Sample specific comment

W184A: *Pseudomonas aeruginosa*

12/110 (11%) participants reported a false positive result for this examination. The sample contained *Pseudomonas putida* which grows as 1 - 3mm circular, cream colonies on PCN agar. However further tests would have confirmed that the organism was not *P. aeruginosa*.

W184B: Colony count 37°C/ 48 hours

Below is a graph of the colony counts results reported for W184B which is not shown in the main scheme report.



W184B: Colony count 22°C/ 72 hours

16/123 (13%) participants reported a false negative result for this examination. *The Cryptococcus albidus* in the sample grew as pin point colonies on the yeast extract agar after 72 hours incubation. The standard deviation was 59 cfu per mL (wide) and the actual counts reported were not evenly distributed following a Kolmogorov-Smirnov test. Therefore participants reporting a 0 count have been excluded from scoring.

Method based presentation of results

Participants are advised if less than 10 laboratories report a result for a method, no data is shown for the Median, Robust S* and the Range Reported in the 'Method based presentation' tables. Numbers shown in the 'Excluded Results' column are laboratories that reported a censored value.

Trend analysis

Plotting your results over a period of time can help to identify potential problems. Download the updated trend analysis spreadsheet one week after this report has been issued:

<http://www.gov.uk/government/publications/drinking-water-scheme-trend-analysis>

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. Therefore, we will post generic reports on the website, which will be available for 12 months after the distribution has closed, so you can access the missing data.

End of report.

Example Report