

Intended Result	Your Report	Your Score
Specimen 4427 <i>Bordetella pertussis</i>	<i>Bordetella pertussis</i>	2
Specimen 4428 <i>Candida glabrata</i>	<i>Candida glabrata</i>	2
Specimen 4429 <i>Plesiomonas shigelloides</i>	<i>Plesiomonas shigelloides</i>	2

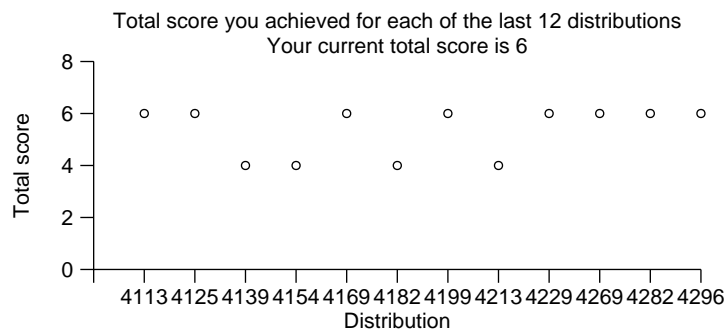
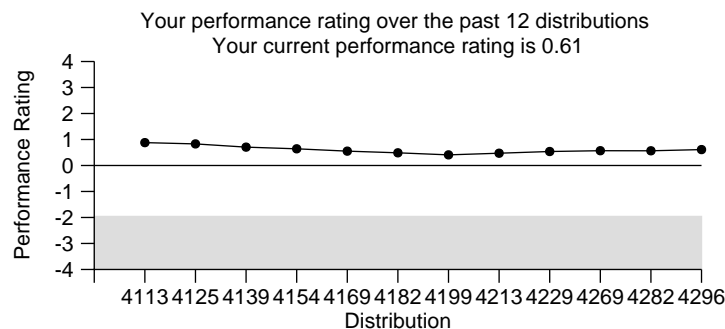
**Cumulative score information**

Total number of specimens sent to you for **UK NEQAS for General bacteriology** over the last 6 distributions is 18  
 Specimen numbers 4129 4130 4131 4175 4176 4223 4224 4225 4343 4344 4345 4388 4389 4390 4427 4428 4429 have been analysed and scored.  
 Number of reports returned and scored 17  
 Number of specimens reported as not examined (not scored) 0  
 Number of specimens received too late for analysis (not scored) 0  
 Number of specimens for which no report was received (not scored) 0  
 Your cumulative score for these specimens was 34 out of a possible total of 34  
 The mean score calculated from the reports returned by **UK** laboratories was 32.65 with a standard error of 2.21.

**Performance rating**

Your performance rating for **UK NEQAS for General bacteriology** (i.e. the number of standard errors by which your cumulative score lies above or below the mean for **UK** laboratories) is 0.61.

A performance rating of more than 1.96 standard errors below the mean indicates possible poor performance.  
 Performance ratings may change if other participants' results are amended.  
 No score penalty is incurred for non return of reports. However non return of results may be used as a measure of poor performance.



**Turn around time:** The time taken to report your results was 0- day(s). This information is provided for your own use and does not form part of your performance assessment.

**Report format:** In the histograms on pages 2, 3 and 4, a maximum of 10 instruments/methods are displayed; these include the most commonly used methods and the method(s) used in your laboratory indicated by an arrow(s). The figures in the histograms and those in the overall results tables may differ:

- (1) due to participants using more than one instrument/method resulting in higher numbers of data sets in the histograms, or,
  - (2) due to exclusion of kits displayed in the histograms resulting in apparently lower numbers of data sets in the histograms.
- The method category described as 'other' contains a miscellaneous assortment of method responses that were not well defined.

**Acknowledgments:** We thank colleagues from Public Health England (PHE) - National Infection Services (NIS): Mycology Reference Laboratory, Bristol, the Gastrointestinal Bacteria Reference Unit (GBRU) and the Respiratory and Vaccine Preventable Bacteria Reference Unit (RVPBRU) for the supply of strains and confirmatory testing.

**Enquiries:** For repeat specimens please order using the web form or e-mail [organiser@ukneqasmicro.org.uk](mailto:organiser@ukneqasmicro.org.uk) stating your laboratory identification number, the distribution name and number, and specimen numbers. For any technical enquiries related to this distribution, please contact Shila Seaton using the email address above. In-house test results are available should you experience a technical failure and wish to discuss the results. To access intended results and additional images with information on media and incubation conditions associated with this distribution, log onto our secure website and click on the DIST button.

Report authorised by: Paul Chadwick, Scheme Organiser

**Images of results obtained in the UK NEQAS laboratory**

No. 4427 *Bordetella pertussis*



No. 4428 *Candida glabrata*



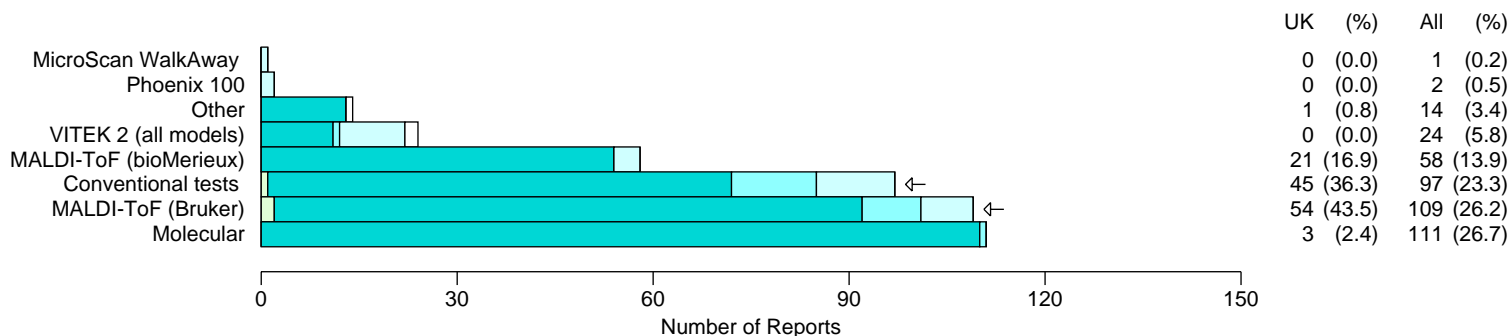
No. 4429 *Plesiomonas shigelloides*



Specimen	Fully Correct	Scored
4427	98%	Yes
4428	100%	Yes
4429	95%	Yes

The one hundred laboratories achieving the highest cumulative scores in the current distribution are selected and designated referee laboratories. The process is anonymous, selection is made by the computer and the identities of these laboratories are not known to UK NEQAS, to the laboratories concerned or to other participants. Participants' results will only be scored if 80% or more of the referee laboratories examining the specimen achieve fully correct results.

**Specimen : 4427** Pernaal: 5 year old child with suspected whooping cough. The presence of significant pathogens was queried. Specimen contained *Bordetella pertussis* and *Staphylococcus hominis*.



Unexpected pathogen  
 Unnamed *Bordetella* sp.  
 *Bordetella* sp. other than *pertussis*  
 Negative result (no growth or commensals)  
 *Bordetella pertussis*  
 *Bordetella* and additional unexpected pathogen

Your Report : *Bordetella pertussis*  
Your Score : 2

Overall Results	UK	All	Score
Unexpected pathogen	0	2	-1
Negative result	4	39	0
Unnamed <i>Bordetella</i> sp.	9	19	2
<i>Bordetella pertussis</i>	99	320	2
Incorrect <i>Bordetella</i> sp.	0	1	1
<i>Bordetella</i> & unexpected pathogen	1	1	-1
<b>Total</b>	<b>113</b>	<b>382</b>	
<b>% Correct</b>	<b>95.6</b>	<b>88.7</b>	

**Unexpected pathogens with/without *Bordetella pertussis* :**  
*Acinetobacter lwoffii* 1  
*Klebsiella pneumoniae* ssp. *pneumoniae* 1  
Methicillin resistant *Staphylococcus aureus* 1

**Incorrect species:**  
*B. parapertussis* 1

Category: Advanced

Specimen 4427 contained a *Bordetella pertussis*. A consensus was achieved with 88.7% of participants achieving a fully correct score, compared with 86.6% in October 2017 (distribution 4169) when this pathogen was last distributed.

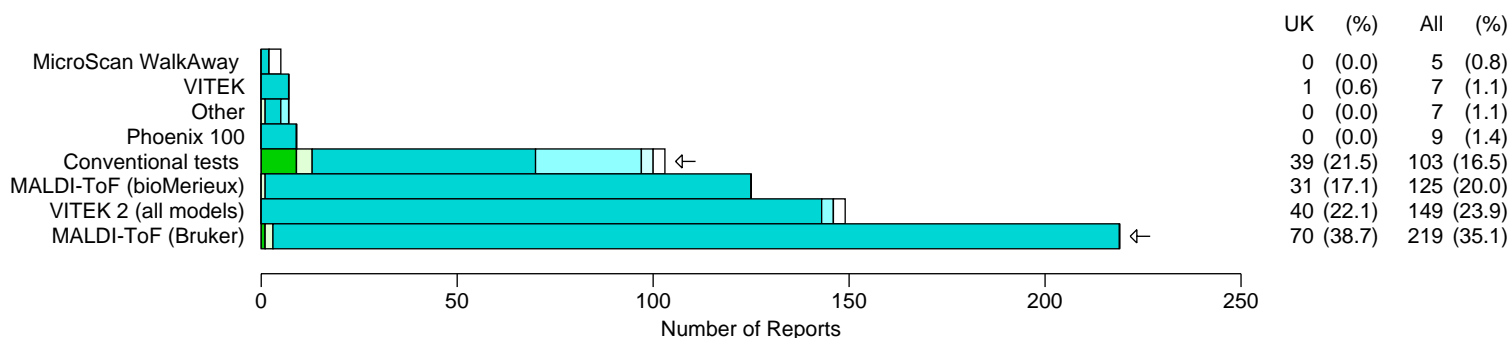
MALDI-ToF (Bruker and bioMerieux) was the most common method reported for identifying this pathogen (n=167).



Specimen	Fully Correct	Scored
4427	98%	Yes
4428	100%	Yes
4429	95%	Yes

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**Specimen : 4428** Exit site swab: Suspected central line infection. The presence of significant pathogens was queried. Specimen contained *Candida glabrata*.



- Unexpected pathogen
- Unnamed *Candida* sp.
- Candida* sp. other than *glabrata*
- Unnamed yeast
- Negative result (no growth or commensals)
- Candida glabrata*
- Candida* and additional unexpected pathogen
- Genus other than *Candida*

Your Report : *Candida glabrata*  
Your Score : 2

Overall Results	UK	All	Score
Unexpected pathogen	1	6	-1
Negative result	2	3	0
Unnamed <i>Candida</i> sp.	12	26	2
<i>Candida glabrata</i>	146	522	2
Incorrect <i>Candida</i> sp.	0	7	0
<i>Candida</i> & unexpected pathogen	0	2	-1
Unnamed yeast	6	9	2
Genus other than <i>Candida</i>	0	0	0
<b>Total</b>	<b>167</b>	<b>575</b>	
<b>% Correct</b>	<b>98.2</b>	<b>96.9</b>	

**Unexpected pathogens with/without *Candida glabrata* :**

*Corynebacterium* species 1  
*Leuconostoc mesenteroides* 2  
*Plesiomonas shigelloides* 2  
*Prototheca wickerhamii* 1  
*Staphylococcus aureus* 1  
*Staphylococcus lugdunensis* 1

**Incorrect species:**

*C. albicans* 5  
*C. parapsilosis* 2

Category: Core

Specimen 4428 contained a *Candida glabrata*. A very good performance with 96.9% of participants achieving a fully correct score.

UK Standards for Microbiology Investigations (SMI) of intravascular cannulae and associated specimens (B20), recommend reporting to genus level, sufficient for clinical reporting. Therefore the laboratories reporting yeasts and *Candida* species were also allocated a full score.

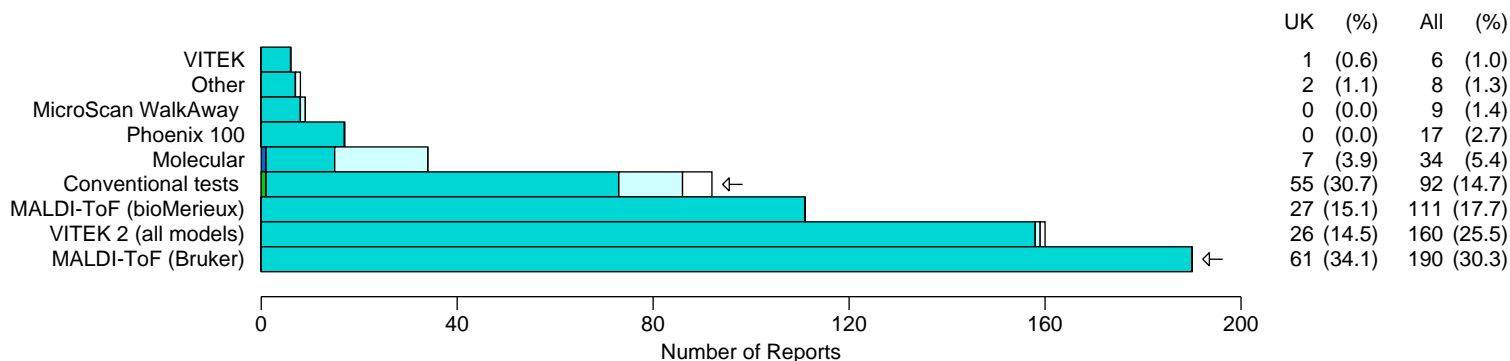
MALDI-ToF (Bruker and bioMerieux) was the most common method reported for identifying this pathogen (n=344).



Referee laboratories result	Specimen	Fully Correct	Scored
4427	98%	Yes	
4428	100%	Yes	
4429	95%	Yes	

The one hundred laboratories achieving the highest cumulative scores in the current distribution are selected and designated referee laboratories. The process is anonymous, selection is made by the computer and the identities of these laboratories are not known to UK NEQAS, to the laboratories concerned or to other participants. Participants' results will only be scored if 80% or more of the referee laboratories examining the specimen achieve fully correct results.

**Specimen : 4429** Faeces: Diarrhoea in a 34 year old man following travel to India. The presence of intestinal pathogens was queried. Specimen contained *Plesiomonas shigelloides*, *Enterococcus faecalis* and *Escherichia coli*.



- Unexpected pathogen
- Unnamed *Plesiomonas* sp.
- Plesiomonas* sp. other than *shigelloides*
- Unidentified Gram -ve rod
- Negative result (no growth or commensals)
- Plesiomonas shigelloides*
- Plesiomonas* and additional unexpected pathogen
- Gram -ve genus other than *Plesiomonas*

Your Report : *Plesiomonas shigelloides*

Your Score : 2

**Unexpected pathogens with/without *Plesiomonas shigelloides* :**  
*Shigella sonnei* 6  
*Shigella* species 3

Overall Results	UK	All	Score
Unexpected pathogen	3	8	-1
Negative result	12	27	0
Unnamed <i>Plesiomonas</i> sp.	0	0	0
<i>Plesiomonas shigelloides</i>	148	525	2
Incorrect <i>Plesiomonas</i> sp.	0	0	0
<i>Plesiomonas</i> & unexpected pathogen	0	1	-1
Unidentified Gram -ve rod	0	0	0
Gram -ve genus other than <i>Plesiomonas</i>	0	0	0
<b>Total</b>	<b>163</b>	<b>561</b>	
<b>% Correct</b>	<b>90.8</b>	<b>93.6</b>	

Category: Core

Specimen 4429 contained a *Plesiomonas shigelloides*. A good performance with 93.6% of participants achieving a fully correct score, a marked improvement compared with 88.4% in October 2014 (distribution 3541) when this pathogen was last distributed.

Nine participants reported the presence of a *Shigella* species. In the UK NEQAS laboratory, several stages of quality control (QC) checks are performed throughout preparation and distribution of the specimen. Each QC check yielded the growth of the intended pathogen with commensals only. Please note that *Plesiomonas* species cross react with *Shigella sonnei* serology. (Reference: SMI ID 20 Identification of *Shigella* species). This organism is now categorised as core as this pathogen has been distributed in previous distributions.

MALDI-ToF (Bruker and bioMerieux) was the most common method reported for identifying this pathogen (n=301).

