LABQUALITY

External Quality Assessment Scheme

Streptococcus pneumoniae, antigen detection in urine Round 1, 2023

Specimens

Please find enclosed 3 liquid, urine simulating specimens S001, S002 and S003, each 1 $\,\mathrm{mL}$.

Caution

Quality control specimens must be handled with the same care as patient samples, i.e. as potential transmitters of serious diseases.

Examinations

Streptococcus pneumoniae, antigen detection in urine.

Storage and use

After arrival, the samples should be stored at +2...8 °C. The examinations should be performed as soon as possible.

- 1. Let the specimens warm up to room temperature.
- 2. Dip a sample collection swab (supplied by your test kit manufacturer) into the specimen vial, completely immersing the swab head.
- 3. If necessary, touch the swab to the side of the vial to remove excess liquid.
- 4. In the sequel follow the instructions given by the test manufacturer.

Result reporting

Please enter the results and methods via LabScala (www.labscala.com). If you do not find your test in the registry, please contact the EQA Coordinator. All reported results will be scored.

S001



S002



S003



2023-02-28

INSTRUCTIONS

Product no. 5598 LQ761423011-013/US

Subcontracting: Sample pretesting

If the kit is incomplete or contains damaged specimens, please report immediately to info@labquality.fi

The results should be reported no later than **March 24, 2023**.

The expected results of the round are published in LabScala in the View reports section by March 28, 2023.

Inquiries

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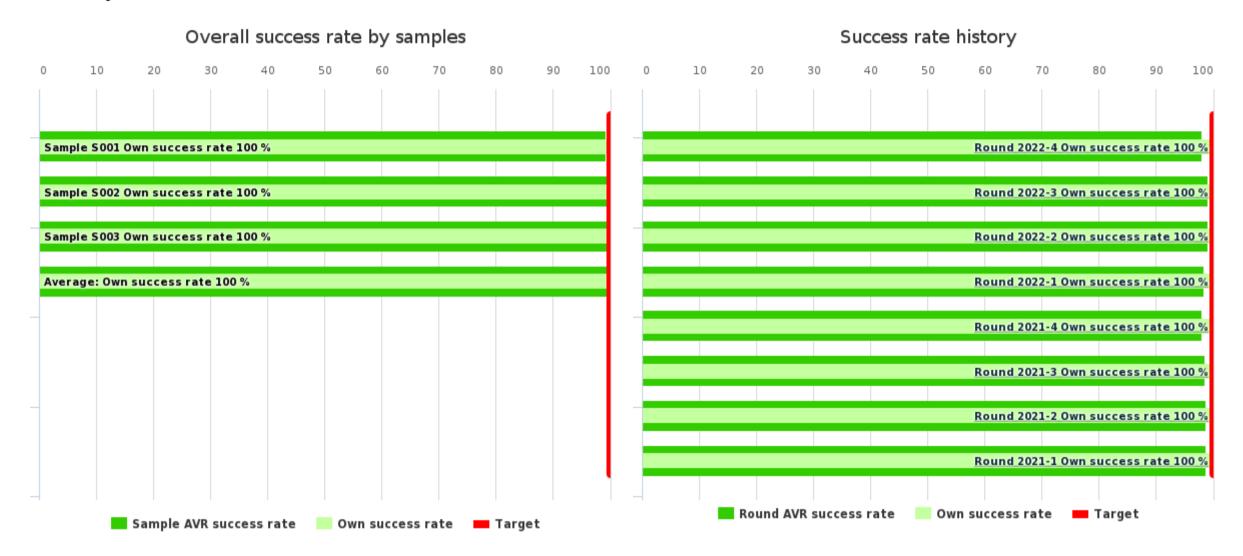




Client report

	No of participants	No of responded participants	Response percentage
Streptococcus pneumoniae, antigen detection in urine, March, 1-2023	264	257	97.3 %

Summary

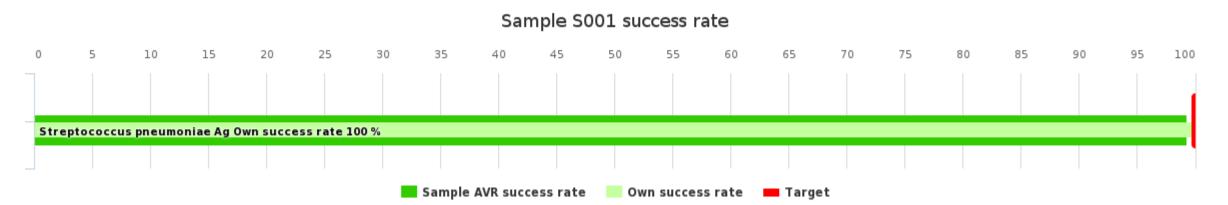


Summary	Own score	Max score	Own success rate	Difference	AVR success rate
Sample S001	2	2	100 %	0.7 %	99.3 %
Sample S002	2	2	100 %	0.4 %	99.6 %
Sample S003	2	2	100 %	0.4 %	99.6 %
Average:			100 %	0.5 %	99.5 %

History	Test nr.	Own success rate	Difference	AVR success rate
Round 2022-4	1-1	100 %	1.9 %	98.1 %
Round 2022-3	1-1	100 %	0.9 %	99.1 %
Round 2022-2	1-1	100 %	0.8 %	99.2 %
Round 2022-1	1-1	100 %	1.5 %	98.5 %
Round 2021-4	1-1	100 %	2 %	98 %
Round 2021-3	1-1	100 %	1.4 %	98.6 %
Round 2021-2	1-1	100 %	1.2 %	98.8 %
Round 2021-1	1-1	100 %	1.3 %	98.7 %

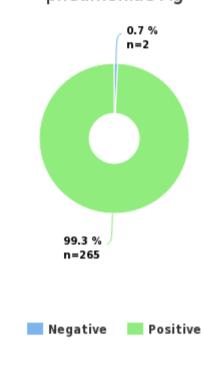


Sample S001 | Streptococcus pneumoniae, Ag: positive



Sample S001 results	Responded	Own score	Max score	Own success rate	Difference	AVR success rate	Count
	Streptococcus pneumoniae Ag	2	2	100 %	0.7 %	99.3 %	267
Total:		2	2	100 %	0.7 %	99.3 %	267

Sample S001 Streptococcus pneumoniae Ag

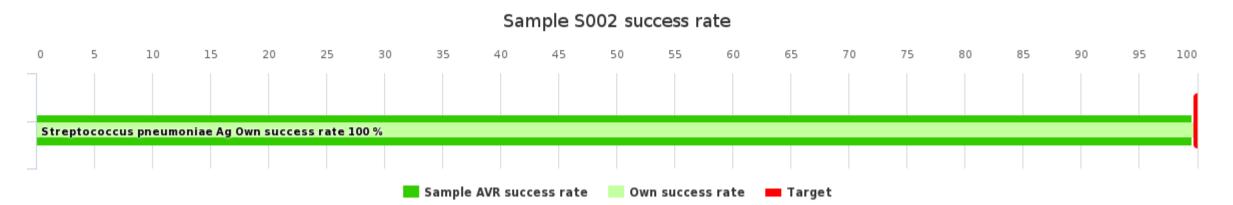


OWN DEVICE: 1

Streptococcus pneumoniae Ag	Result	Test kit	Result count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		2		-				0 %
		Abbott Binax NOW S.pneumoniae Antigen Card		2					
	Positive		265		2	2	100 %	0 %	100 %
		 Abbott Binax NOW S.pneumoniae Antigen Card 		130					
		Abbott Binax NOW S.pneumoniae Antigen Card (Digival Reader)		40					
		ArcDia MariPoc RespiTest		12					
		Biosynex S. pneumoniae		5					
		Certest Biotec CerTest S. pneumoniae		6					
		Hangzhou Alltest Biotech S. pneumoniae Antigen Rapid Test Cassette		1					
		Meridian Bioscience TRU Strep Pneumo		6					
		Nal von minden Dedicio Streptococcus pneumoniae Test		1					
		Nal von minden NADAL S, pneumoniae test		2					
		Operon Simple Strep pneumo-Legio		1					
		Operon Stick Strep pneumo-Legio		1					
		Quidel Sofia S. pneumoniae FIA		31					
		SD Biosensor Standard F S. pneumoniae Ag FIA		23					
		Servibio PneumoSign		3					
		SSI Diagnostica ImmuView S. pneumoniae and L. pneumophila Urinary and CSF Antigen Test		2					
		Vitassay Strep. pneumoniae		1					
	Total:		267		2	2	100 %	0.7 %	99.3 %

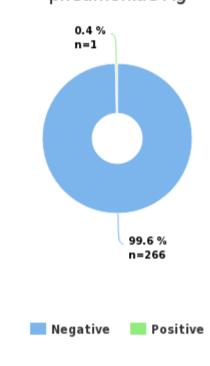


Sample S002 | Streptococcus pneumoniae, Ag: negative



Sample S002 results	Responded	Own score	Max score	Own success rate	Difference	AVR success rate	Count
	Streptococcus pneumoniae Ag	2	2	100 %	0.4 %	99.6 %	267
Total:		2	2	100 %	0.4 %	99.6 %	267

Sample S002 Streptococcus pneumoniae Ag

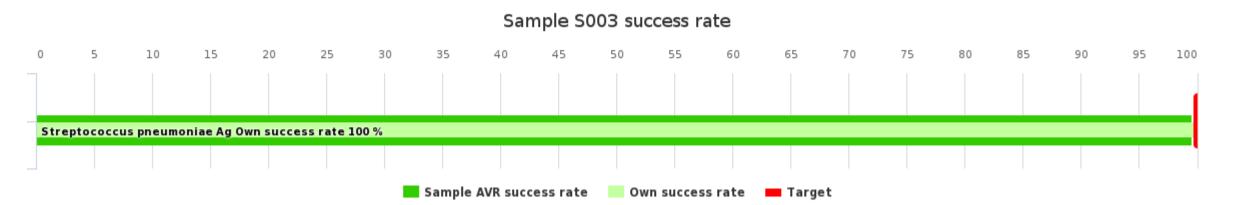


OWN DEVICE: 1

Streptococcus pneumoniae Ag	Result	Test kit	Result count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		266		2	2	100 %	0 %	100 %
		Abbott Binax NOW S.pneumoniae Antigen Card		131					
		Abbott Binax NOW S.pneumoniae Antigen Card (Digival Reader)		40					
		ArcDia MariPoc RespiTest		12					
		Biosynex S. pneumoniae		5					
		Certest Biotec CerTest S. pneumoniae		6					
		Hangzhou Alltest Biotech S. pneumoniae Antigen Rapid Test Cassette		1					
		Meridian Bioscience TRU Strep Pneumo		6					
		Nal von minden Dedicio Streptococcus pneumoniae Test		1					
		Nal von minden NADAL S, pneumoniae test		2					
		Operon Simple Strep pneumo-Legio		1					
		Operon Stick Strep pneumo-Legio		1					
		Quidel Sofia S. pneumoniae FIA		31					
		SD Biosensor Standard F S. pneumoniae Ag FIA		23					
		Servibio PneumoSign		3					
		SSI Diagnostica ImmuView S. pneumoniae and L. pneumophila Urinary and CSF Antigen Test		2					
		Vitassay Strep. pneumoniae		1					
	Positive		1		-				0 %
		Abbott Binax NOW S.pneumoniae Antigen Card		1					
	Total:		267		2	2	100 %	0.4 %	99.6 %



Sample S003 | Streptococcus pneumoniae, Ag: positive

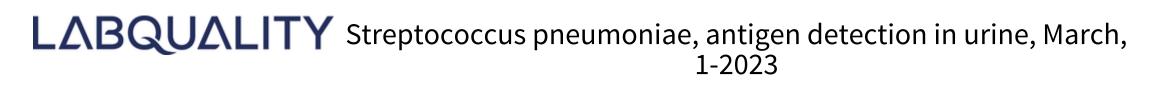


Sample S003 results	Responded	Own score	Max score	Own success rate	Difference	AVR success rate	Count
	Streptococcus pneumoniae Ag	2	2	100 %	0.4 %	99.6 %	267
Total:		2	2	100 %	0.4 %	99.6 %	267

Sample S003 Streptococcus pneumoniae Ag 0.4 % n=1 99.3 % n=265 Negative Weak positive Positive

OWN DEVICE: 1

Streptococcus pneumoniae Ag	Result	Test kit	Result count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				0 %
		Abbott Binax NOW S.pneumoniae Antigen Card		1					
	Weak positive		1		-				100 %
		Abbott Binax NOW S.pneumoniae Antigen Card		1					
	Positive		265		2	2	100 %	0 %	100 %
		Abbott Binax NOW S.pneumoniae Antigen Card		129					
		Abbott Binax NOW S.pneumoniae Antigen Card (Digival Reader)		41					
		ArcDia MariPoc RespiTest		12					
		Biosynex S. pneumoniae		5					
		Certest Biotec CerTest S. pneumoniae		6					
		Hangzhou Alltest Biotech S. pneumoniae Antigen Rapid Test Cassette		1					
		Meridian Bioscience TRU Strep Pneumo		6					
		Nal von minden NADAL S, pneumoniae test		3					
		Operon Simple Strep pneumo-Legio		1					
		Operon Stick Strep pneumo-Legio		1					
		Quidel Sofia S. pneumoniae FIA		31					
		SD Biosensor Standard F S. pneumoniae Ag FIA		23					
		Servibio PneumoSign		3					
		SSI Diagnostica ImmuView S. pneumoniae and L. pneumophila Urinary and CSF Antigen Test		2					
		Vitassay Strep. pneumoniae		1					





Tatal.	267	2	2	100.0/	0.40/	99 6 %
Lotal:	267	2	2	100 %	0.4 %	99.6 %



Report Info

PARTICIPANTS

Altogether 264 laboratories from 17 countries participated in this EQA round.

REPORT INFO

The results are divided into groups according to the method stated by the laboratory and presented in laboratory-specific tables. Accepted results are marked with green color and laboratory's own result with a black radio button . In the scoring report you will find summaries of overall success rate and sample specific success rates (%). Sample specific interpretations are shown in pie diagrams as percentages and the total interpretation and methodic counts in the tables. If you have not reported any results you will get a note: "You have not responded in time, only global report is available".

For information on report interpretation and performance evaluation, please see the "EQAS Interpretation guidelines" in LabScala User instructions. In case you have any questions regarding the reports, please contact the EQA Coordinator.

SCORING

The round is scored based on test results when 60% or more of the participants report the expected result and when at least three results are reported. The following general rules are applied:

Correct/expected test result 2/2 points False/deviating test result 0/2 points

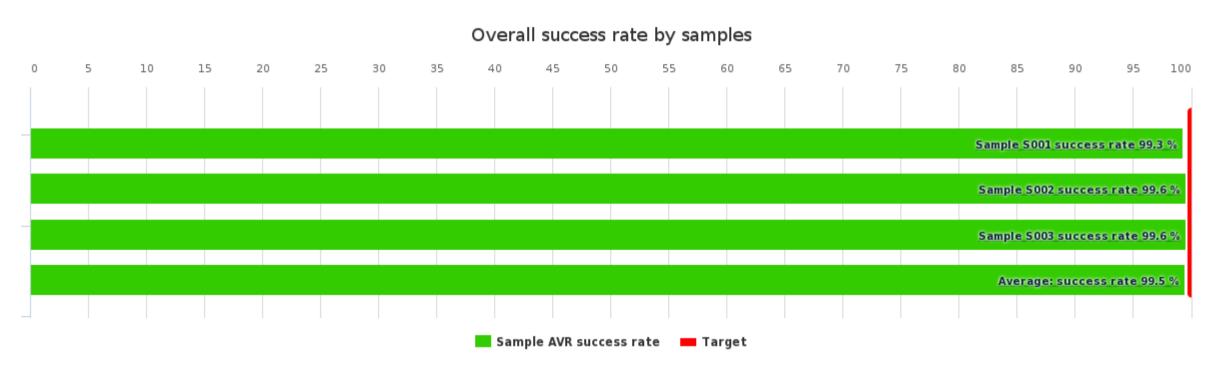
The performance of the laboratory is assessed by the Own success rate (%). The target is 100%. The examination-specific scores obtained by the laboratory in the round are converted to Own success rate per sample (scores/maximum scores*100). The Laboratory's Own success rate is the average of the sample success rates.

The success rate for the entire round (AVR success rate) is calculated from the total number of scores given to the results per sample (all scores/maximum scores*100). The AVG success rate of the entire round is the average of the sample success rates. The difference in the Laboratory's Own success rate (%) to the corresponding numbers for the entire round is shown in the table.

GLOBAL REPORT

	No of participants	No of responded participants	Response percentage
Streptococcus pneumoniae, antigen detection in urine, March, 1-2023	264	257	97.3 %

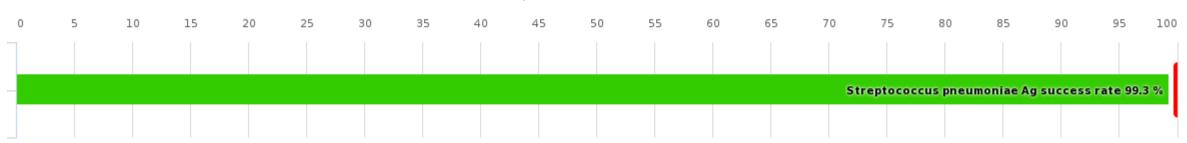
Summary



Summary	AVR success rate
Sample S001	99.3 %
Sample S002	99.6 %
Sample S003	99.6 %
Average:	99.5 %

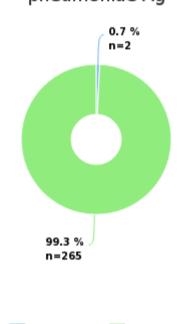
Sample S001 | Streptococcus pneumoniae, Ag: positive

Sample S001 success rate



Sample S001 results	Responded	AVR success rate	Count
	Streptococcus pneumoniae Ag	99.3 %	267
Tota	ıl:	99.3 %	267

Sample S001 Streptococcus pneumoniae Ag

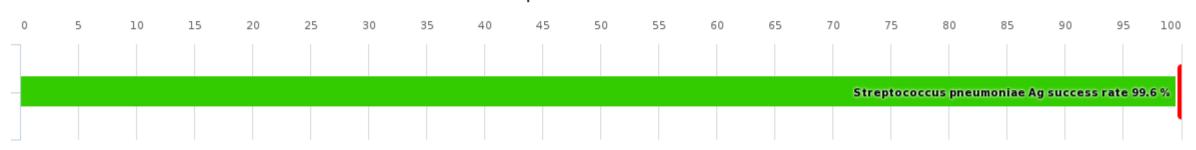


Negative	Positive

Streptococcus pneumoniae Ag	Result	Test kit	Result count	Test kit count	AVR success rate	Result Score
	Negative		2		0 %	0
		Abbott Binax NOW S.pneumoniae Antigen Card		2		
	Positive		265		100 %	2
		Abbott Binax NOW S.pneumoniae Antigen Card		130		
		Abbott Binax NOW S.pneumoniae Antigen Card (Digival Reader)		40		
		ArcDia MariPoc RespiTest		12		
		Biosynex S. pneumoniae		5		
		Certest Biotec CerTest S. pneumoniae		6		
		Hangzhou Alltest Biotech S. pneumoniae Antigen Rapid Test Cassette		1		
		Meridian Bioscience TRU Strep Pneumo		6		
		Nal von minden Dedicio Streptococcus pneumoniae Test		1		
		Nal von minden NADAL S, pneumoniae test		2		
		Operon Simple Strep pneumo-Legio		1		
		Operon Stick Strep pneumo-Legio		1		
		Quidel Sofia S. pneumoniae FIA		31		
		SD Biosensor Standard F S. pneumoniae Ag FIA		23		
		Servibio PneumoSign		3		
		SSI Diagnostica ImmuView S. pneumoniae and L. pneumophila Urinary and CSF Antigen Test		2		
		Vitassay Strep. pneumoniae		1		
	Total:		267		99.3 %	

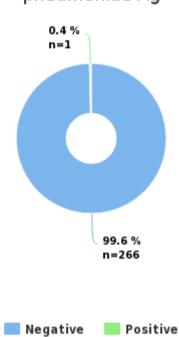
Sample S002 | Streptococcus pneumoniae, Ag: negative

Sample S002 success rate



Sample S002 results	Responded	AVR success rate	Count
	Streptococcus pneumoniae Ag	99.6 %	267
Tota		99.6 %	267

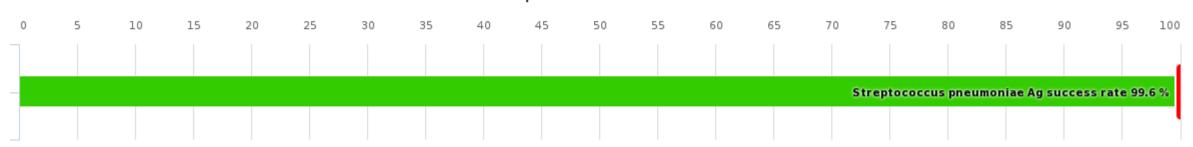
Sample S002 Streptococcus pneumoniae Ag



Streptococcus pneumoniae Ag	Result	Test kit	Result count	Test kit count	AVR success rate	Result Score
	Negative		266		100 %	2
		Abbott Binax NOW S.pneumoniae Antigen Card		131		
		Abbott Binax NOW S.pneumoniae Antigen Card (Digival Reader)		40		
		ArcDia MariPoc RespiTest		12		
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		Quidel Sofia S. pneumoniae FIA		31		
		SD Biosensor Standard F S. pneumoniae Ag FIA		23		
		Servibio PneumoSign		3		
		SSI Diagnostica ImmuView S. pneumoniae and L. pneumophila Urinary and CSF Antigen Test		2		
		Vitassay Strep. pneumoniae		1		
	Positive		1		0 %	0
		Abbott Binax NOW S.pneumoniae Antigen Card		1		
	Total:		267		99.6 %	

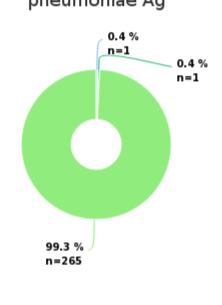
Sample S003 | Streptococcus pneumoniae, Ag: positive

Sample S003 success rate



Sample S003 results	Responded	AVR success rate	Count
	Streptococcus pneumoniae Ag	99.6 %	267
	Total:	99.6 %	267

Sample S003 Streptococcus pneumoniae Ag



Negative Weak positive Positive

Streptococcus pneumoniae Ag	Result	Test kit	Result count	Test kit count	AVR success rate	Result Score
	Negative		1		0 %	0
		Abbott Binax NOW S.pneumoniae Antigen Card		1		
	Weak positive		1		100 %	2
		Abbott Binax NOW S.pneumoniae Antigen Card		1		
	Positive		265		100 %	2
		Abbott Binax NOW S.pneumoniae Antigen Card		129		
		Abbott Binax NOW S.pneumoniae Antigen Card (Digival Reader)		41		
		ArcDia MariPoc RespiTest		12		
		Biosynex S. pneumoniae		5		
		Certest Biotec CerTest S. pneumoniae		6		
		Hangzhou Alltest Biotech S. pneumoniae Antigen Rapid Test Cassette		1		
		Meridian Bioscience TRU Strep Pneumo		6		
		Nal von minden NADAL S, pneumoniae test		3		
		Operon Simple Strep pneumo-Legio		1		
		Operon Stick Strep pneumo-Legio		1		
		Quidel Sofia S. pneumoniae FIA		31		
		SD Biosensor Standard F S. pneumoniae Ag FIA		23		
		Servibio PneumoSign		3		
		SSI Diagnostica ImmuView S. pneumoniae and L. pneumophila Urinary and CSF Antigen Test		2		
		Vitassay Strep. pneumoniae		1		
	Total:		267		99.6 %	

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The success rate for the entire round (AVR success rate) is calculated from the total number of scores given to the results per sample (all scores/maximum scores*100). The AVG success rate of the entire round is the average of the sample success rates. The difference in the Laboratory's Own success rate (%) to the corresponding numbers for the entire round is shown in the table.

LABQUALITY

External Quality Assessment Scheme

Streptococcus pneumoniae, antigen detection in urine Round 1, 2023

Specimens

Samples of this EQA round were urine simulating samples. The sample lots were tested in the scheme expert's laboratory and the results were consistent with the certificates provided by the sample manufacturer. Based on the quality controls conducted by the sample material manufacturer, pre-testing and the results obtained in the round, the sample lots are to be considered as homogeneous, stable and suitable for external quality assessment. The materials were sent without temperature control packaging.

The expected results were as follows:

Sample S001 (LQ761423011)
S. pneumoniae Ag Positive

Sample S002 (LQ761423012)
S. pneumoniae Ag Negative

Sample S003 (LQ761423013)
S. pneumoniae Ag Positive

Pre-test method: BinaxNOW S. pneumoniae Antigen card (Abbott).

Report info

Please see the description of the data analysis on the last page of the laboratory-specific reports and global reports. It is important to read the Final report first, because it contains important information of the samples and results in each round.

Comments - Expert

Two samples in this round included *Str. pneumoniae*-antigen (samples S001 and S003). There wasn't antigen of *Str. pneumoniae* in sample S002 as it was negative. Success in this round was excellent and just a few deviant results were reported. According to the raw data, it seems that at least part of deviant results is caused by mixing of samples in analyze phase or when reporting results. it is recommended to retest samples to discover the root cause of deviation and to ensure the validity of the laboratory process.

Exceptions in scoring

No exceptions.

End of report

2023-04-24

FINAL REPORT

Product no. 5598

Subcontracting: Sample pretesting

 Samples sent
 2023-02-28

 Round closed
 2023-03-24

 Expected results
 2023-03-27

 Final report
 2023-04-24

Request for correction

Typing errors in laboratory's result forms are on laboratory's responsibility. Labquality accepts responsibility only for result processing. Requests must be notified by writing within three weeks from the date of this letter.

Authorized by

EQA Coordinator Mira Saarinen mira.h.saarinen@labquality.fi

Expert

M.Sc., Clinical microbiologist, Marjukka Härkönen, Fimlab Laboratories, Tampere, Finland

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