

External Quality Assessment Scheme

Faecal culture Round 1, 2023

Specimens

Please find enclosed 2 lyophilized samples S001 and S002 and vials of rehydration fluid, each 0.5 mL.

Caution

Specimens simulate patient samples and they should be handled in the same way as corresponding specimens capable of transmitting infectious disease.

Examinations

Aeromonas
Campylobacter
Plesiomonas
Salmonella
Shigella
Yersinia

Storage and use

After arrival, the samples should be stored at +2...8 °C.

1. Let the sample (blue-capped vial inside the foil package) and the rehydration fluid (vial with white cap) warm up to room temperature.
2. Aseptically remove the pellet with sterile forceps from the blue-capped vial and place it in the rehydration fluid vial (white cap). Alternatively, you may add the rehydration fluid (à 0.5 mL) directly into the blue-capped vial.
3. Crush the pellet with a sterile loop until the suspension is homogenous.
4. Incubate the vial for 30 minutes in +35...37 °C.
5. Check that the pellet has dissolved properly.
6. Mix well the contents of the vial and proceed immediately with the examination similar to a patient sample.

Result reporting

Please enter the results via LabScala (www.labscala.com). If you cannot find your interpretation or method from the list, please contact the EQA Coordinator. Report to the clinician part will be scored.

S001



S002



2023-03-28

INSTRUCTIONS

Product no. 5190
LQ761623011-012/US
UN3373

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 **April 21, 2023.**

The expected results of the round are published in LabScala in the View Reports section by April 26, 2023.

Inquiries

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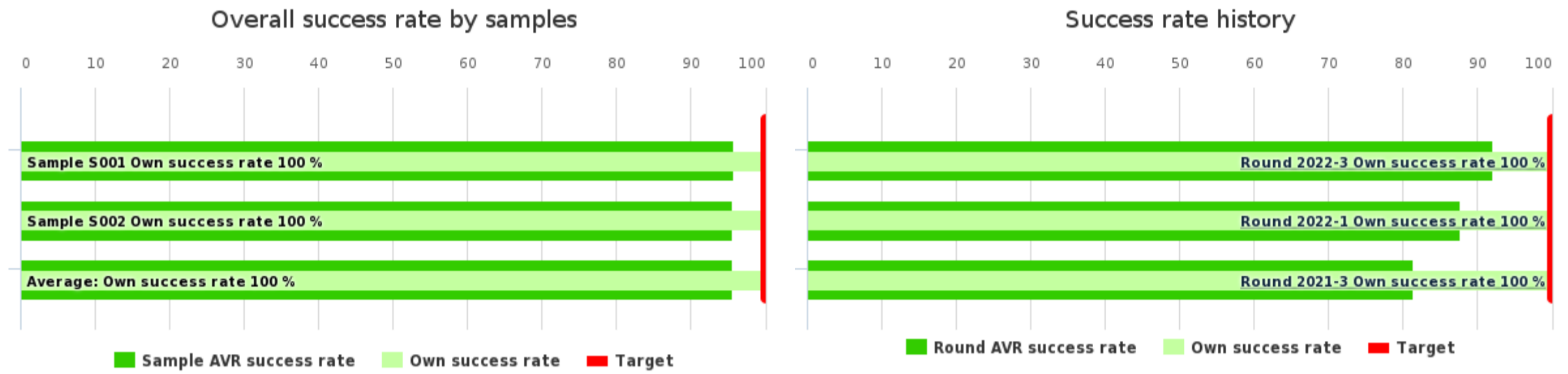
info@labquality.fi
www.labquality.com



Client report

	No of participants	No of responded participants	Response percentage
Faecal culture, April, 1-2023	106	106	100 %

Summary

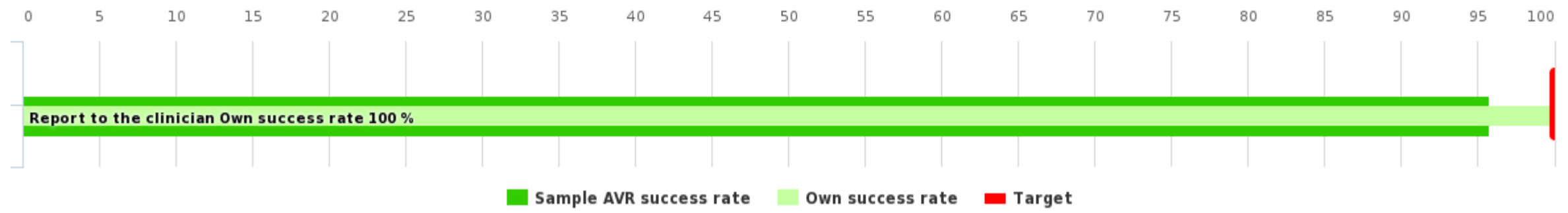


Summary	Own score	Max score	Own success rate	Difference	AVR success rate
Sample S001	4	4	100 %	4.2 %	95.8 %
Sample S002	4	4	100 %	4.3 %	95.7 %
Average:			100 %	4.3 %	95.7 %

History	Test nr.	Own success rate	Difference	AVR success rate
Round 2022-3	1	100 %	7.9 %	92.1 %
Round 2022-1	1	100 %	12.2 %	87.8 %
Round 2021-3	1	100 %	18.6 %	81.4 %

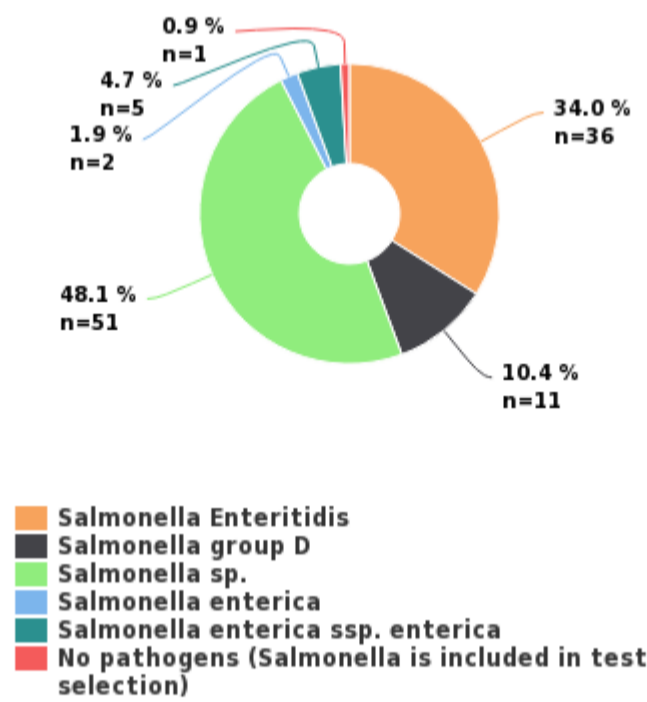
Sample S001 | Salmonella Enteritidis

Sample S001 success rate

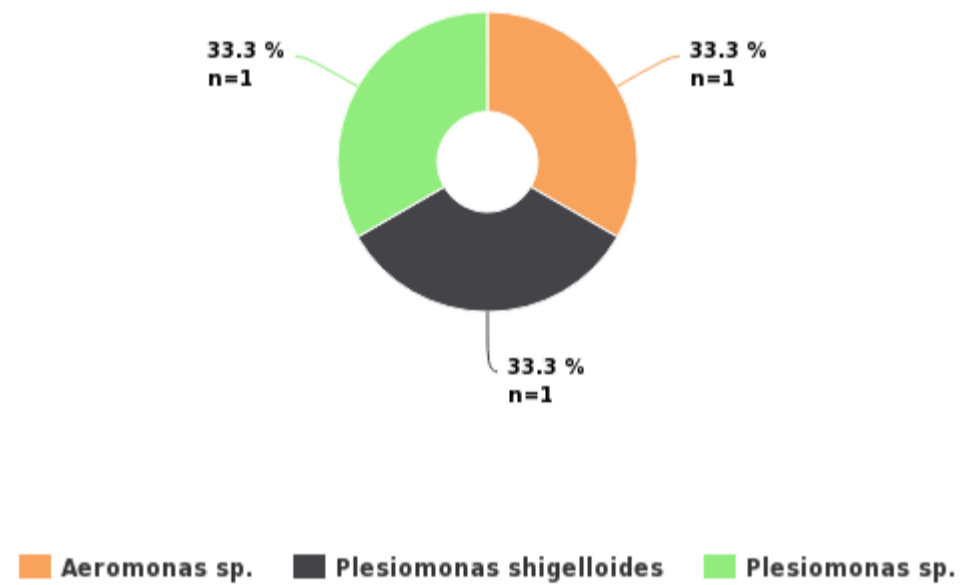


Sample S001 results	Responded	Count
	Report to the clinician	109
	Growth media	189
	Commercial identification test kits and analyzers	34
	Identification tests: MALDI-TOF	79
	Identification tests: NAT	36

Sample S001 Salmonella Enteritidis



Sample S001 Additional finding



LABORATORY SPECIFIC SCORING TABLE

Finding group	Finding	Further action	Own score	Max score	Own success rate	Difference	AVR success rate
Salmonella Enteritidis	Salmonella group D	Not referred for further action	4	4	100 %	3.5 %	96.5 %
Total:			4	4	100 %	4.2 %	95.8 %

REPORT TO THE CLINICIAN

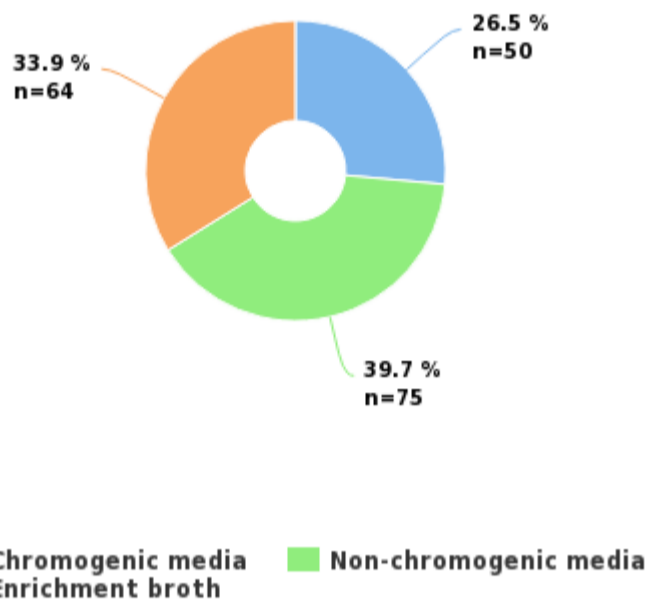
Finding group	Finding	Finding count	Referred	Not referred	AVR success rate
Salmonella Enteritidis		106			96.5 %
	Salmonella Enteritidis	36	12	24	
	Salmonella group D	11	7	4	
	Salmonella sp.	51	42	9	
	Salmonella enterica	2	1	1	
	Salmonella enterica ssp. enterica	5	4	1	
Additional finding	No pathogens (Salmonella is included in test selection)	1			
		3			-
	Aeromonas sp.	1		1	
	Plesiomonas shigelloides	1	1		
	Plesiomonas sp.	1		1	
Total:		109			95.8 %

SCORING SUMMARY

Finding group	Finding	Finding score	Referred	Max score
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Salmonella Enteritidis				4
	Salmonella Enteritidis	4		4
	Salmonella group D	4		4
	Salmonella sp.	3	1	4
	Salmonella enterica	3	1	4
	Salmonella enterica ssp. enterica	3	1	4
	No pathogens (Salmonella is included in test selection)	0		4
Additional finding				-
	Aeromonas sp.	-1		-
	Plesiomonas shigelloides	-1		-
	Plesiomonas sp.	-1		-
Total:				4

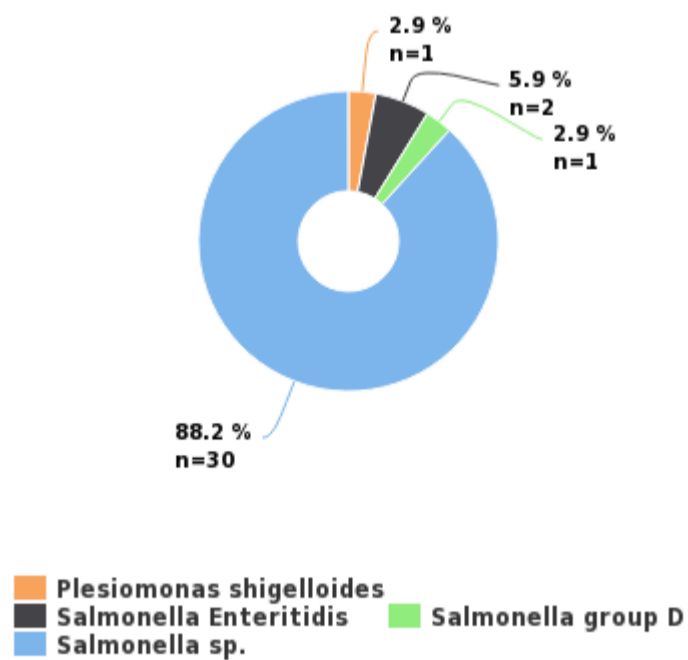
Sample S001 Growth media



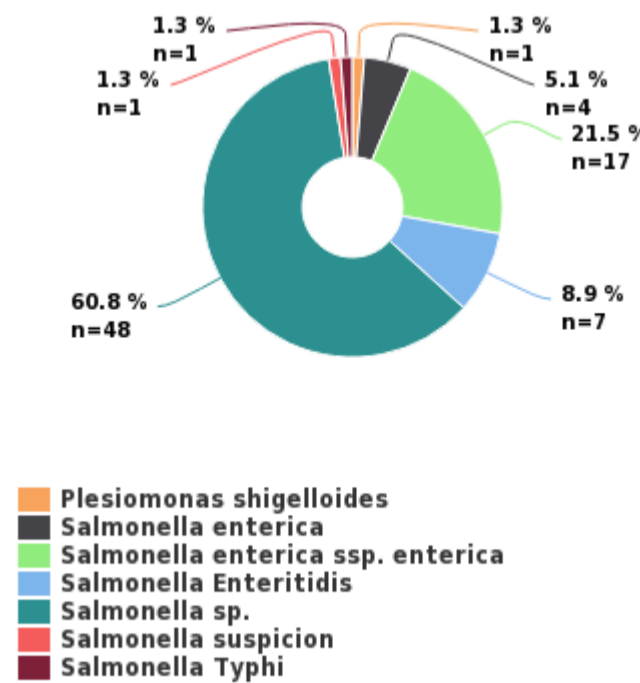
GROWTH MEDIA

Finding group	Result	Result count
Salmonella Enteritidis		185
	Chromogenic media	49
	● Non-chromogenic media	72
	● Enrichment broth	64
Additional finding		4
	Chromogenic media	1
	Non-chromogenic media	3
Total:		189

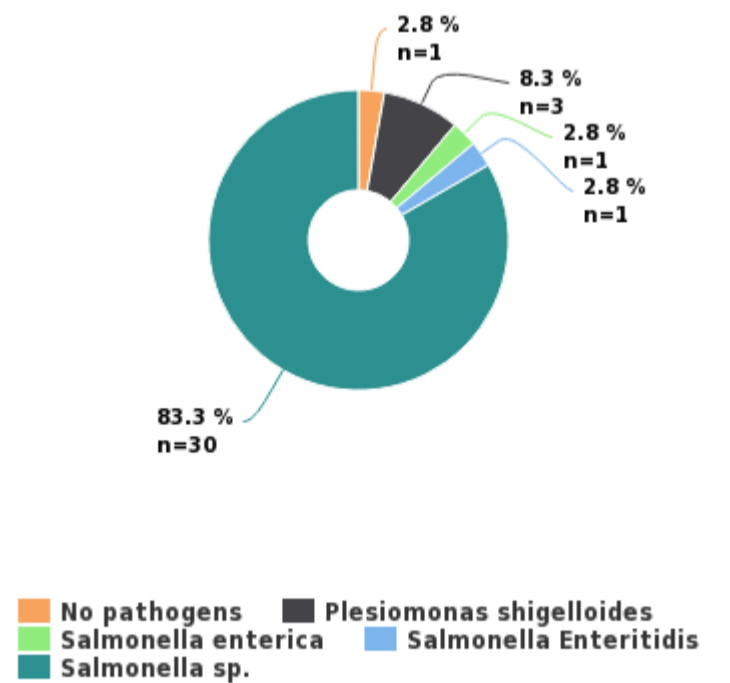
Sample S001 Commercial identification test kits and analyzers



Sample S001 Identification tests: MALDI-TOF



Sample S001 Identification tests: NAT



COMMERCIAL IDENTIFICATION TEST KITS AND ANALYZERS

Finding group	Method	Result	Profile number	Profile number count	
Salmonella Enteritidis	API 20E (bioMerieux)	Salmonella Enteritidis	N/A	1	
		Salmonella sp.	6704551	1	
			6704552	1	
				N/A	1
		BD Phoenix NMIC/ID panel (Becton Dickinson)	Salmonella sp.	414	1
		ID 32GN (bioMerieux)	Salmonella sp.	N/A	1
		Mikrolatest ENTEROtest 24 (ErbaLachema)	Salmonella sp.	N/A	1
		Remel Wellcolex Colour Salmonella Kit (Thermo Scientific)	Salmonella group D	N/A	1
			Salmonella sp.	N/A	1
		VITEK 2 (bioMerieux)	Salmonella sp.	6627735753565010	1
				0017610545566210	2
				0017610541566210	1
				0017610445566210	1
				0015611545566210	1
				0015610545566210	1
				0015610445566210	3
				0015610445566200	1
				0015610441566210	1
				GN	
			N/A	7	
	VITEK 2 Compact 15 (bioMerieux)	Salmonella sp.	0017610445566210	1	
			N/A	2	
	VITEK 2 Compact 30 (bioMerieux)	Salmonella Enteritidis	0015610445566210	1	
Additional finding	VITEK 2 (bioMerieux)	Plesiomonas shigelloides	N/A	1	
Total:				34	

IDENTIFICATION TESTS: MALDI-TOF

Finding group	Method	Result	Score / Probability %	Score / Probability % count		
Salmonella Enteritidis	MALDI Biotyper (Bruker)	Salmonella enterica	≥2	1		
			≥1.7..<2	1		
		Salmonella enterica ssp. enterica	≥2	1		
		Salmonella Enteritidis	≥2	7		
		Salmonella sp.	≥2	43		
			≥1.7..<2	2		
			N/A	1		
			Salmonella Typhi	≥2	1	
			VITEK MS (bioMérieux)	Salmonella enterica	99,9 %	2
				Salmonella enterica ssp. enterica	99,9 %	13
				99 %	2	
				N/A	1	
			Salmonella sp.	99,9 %	1	
				99 %	1	
			Salmonella suspicion	N/A	1	
Additional finding	MALDI Biotyper (Bruker)	Plesiomonas shigelloides	≥2	1		
Total:				79		

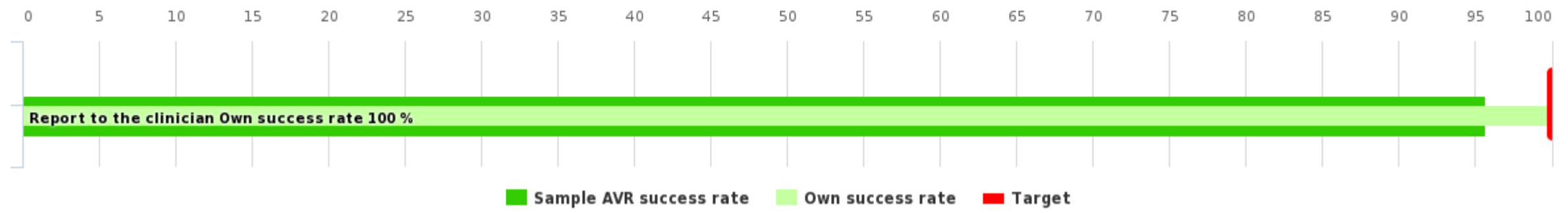
IDENTIFICATION TESTS: NAT

Finding group	Method	Result	Result count
Salmonella Enteritidis	BD MAX Enteric Bacterial Panel	Salmonella sp.	10
	bioMerieux FilmArray GI Panel	Plesiomonas shigelloides	1
		Salmonella sp.	8
	Hologic/Mobidiag Amplidiag Bacterial GE	Salmonella sp.	2
	In house	Salmonella sp.	2
	Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2	Salmonella sp.	2
	Seegene Allplex GI-Bacteria(I) Assay	Salmonella Enteritidis	1
		Salmonella sp.	5
	Seegene Allplex GI-Bacteria(II) Assay	No pathogens	1
	Seegene Allplex GI-EB Screening	Salmonella enterica	1
Salmonella sp.		1	
Additional finding	BD MAX Enteric Bacterial Panel	Plesiomonas shigelloides	2

Total:			36
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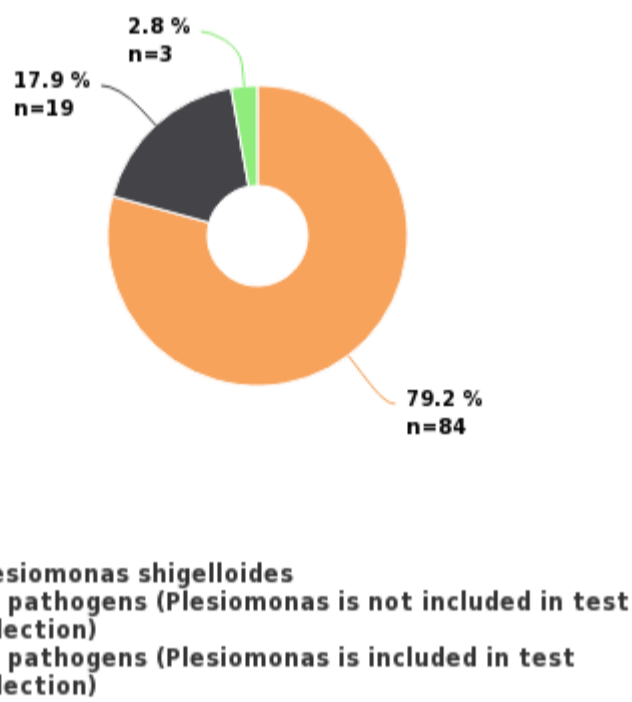
Sample S002 | Plesiomonas shigelloides

Sample S002 success rate

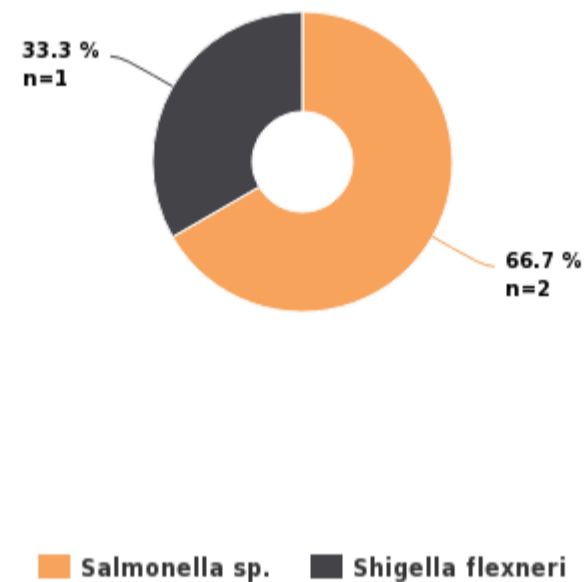


Sample S002 results	Responded	Count
	Report to the clinician	109
	Growth media	152
	Commercial identification test kits and analyzers	25
	Identification tests: MALDI-TOF	72
	Identification tests: NAT	32

Sample S002 Plesiomonas shigelloides



Sample S002 Additional finding



LABORATORY SPECIFIC SCORING TABLE

Finding group	Finding	Further action	Own score	Max score	Own success rate	Difference	AVR success rate
Plesiomonas shigelloides	Plesiomonas shigelloides	Not referred for further action	4	4	100 %	3.4 %	96.6 %
Total:			4	4	100 %	4.3 %	95.7 %

REPORT TO THE CLINICIAN

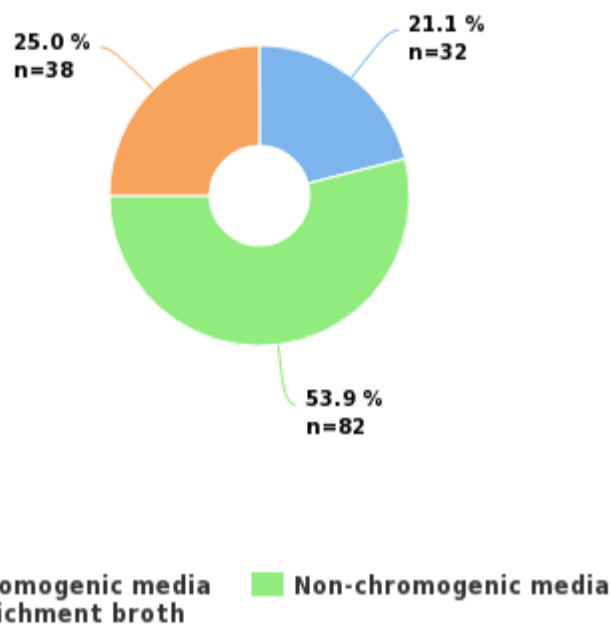
Finding group	Finding	Finding count	Referred	Not referred	AVR success rate
Plesiomonas shigelloides		106			96.6 %
	☉ Plesiomonas shigelloides	84	13	☉ 71	
	No pathogens (Plesiomonas is not included in test selection)	19			
	No pathogens (Plesiomonas is included in test selection)	3			
Additional finding		3			-
	Salmonella sp.	2	2		
	Shigella flexneri	1		1	
Total:		109			95.7 %

SCORING SUMMARY

Finding group	Finding	Finding score	Max score
Plesiomonas shigelloides			4
	☉ Plesiomonas shigelloides	4	4
	No pathogens (Plesiomonas is not included in test selection)	-	-
	No pathogens (Plesiomonas is included in test selection)	0	4

Additional finding			-
	Salmonella sp.	-1	-
	Shigella flexneri	-1	-
Total:			4

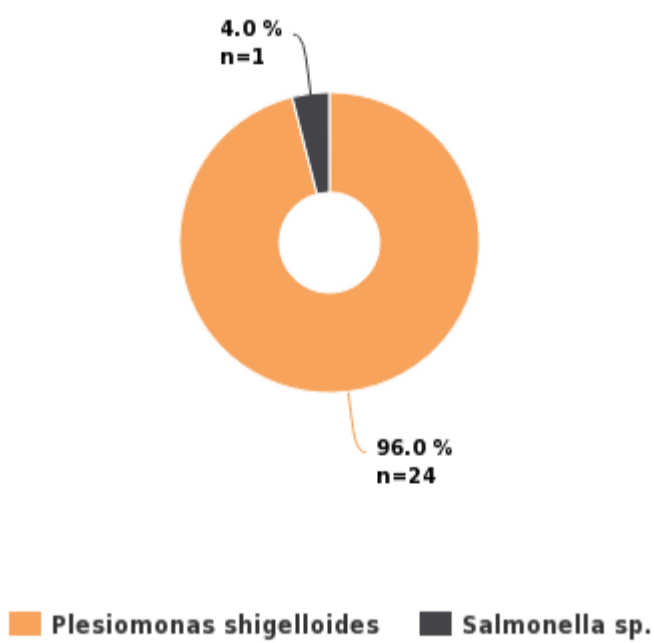
Sample S002 Growth media



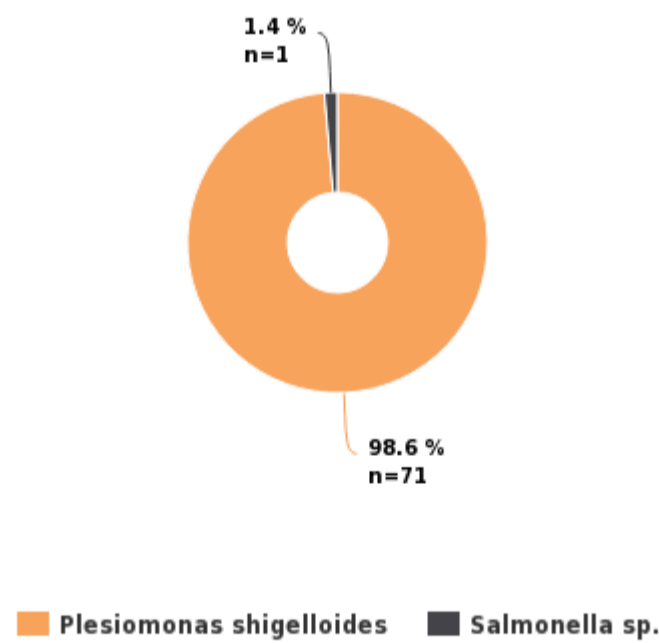
GROWTH MEDIA

Finding group	Result	Result count
Plesiomonas shigelloides		147
	Chromogenic media	31
	● Non-chromogenic media	79
	● Enrichment broth	37
Additional finding		5
	Chromogenic media	1
	Non-chromogenic media	3
	Enrichment broth	1
Total:		152

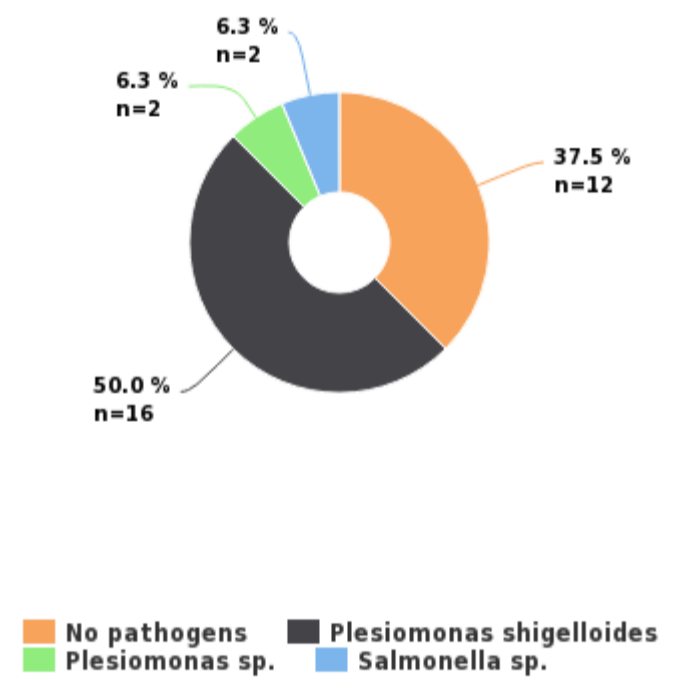
Sample S002 Commercial identification test kits and analyzers



Sample S002 Identification tests: MALDI-TOF



Sample S002 Identification tests: NAT



COMMERCIAL IDENTIFICATION TEST KITS AND ANALYZERS

Finding group	Method	Result	Profile number	Profile number count
Plesiomonas shigelloides	API 20E (bioMerieux)	Plesiomonas shigelloides	7144204	3
			N/A	1
	BD Phoenix NMIC/ID panel (Becton Dickinson)	Plesiomonas shigelloides	414	1
	ID 32GN (bioMerieux)	Plesiomonas shigelloides	N/A	1
	RapID NF Plus (Thermo Scientific)	Plesiomonas shigelloides	130205	1

	VITEK 2 (bioMerieux)	Plesiomonas shigelloides	0425201140447201	1
			0425201140446201	1
			0425201140406201	5
			GN	1
			N/A	5
	VITEK 2 Compact 15 (bioMerieux)	Plesiomonas shigelloides	0425201140406201	1
			0025201040006201	1
			N/A	1
	VITEK 2 Compact 30 (bioMerieux)	Plesiomonas shigelloides	0425201140406201	1
Additional finding	VITEK 2 (bioMerieux)	Salmonella sp.	N/A	1
Total:				25

IDENTIFICATION TESTS: MALDI-TOF

Finding group	Method	Result	Score / Probability %	Score / Probability % count
Plesiomonas shigelloides	MALDI Biotyper (Bruker)	Plesiomonas shigelloides	≥2	52
			N/A	1
	VITEK MS (bioMérieux)	Plesiomonas shigelloides	99,9 %	13
			99 %	3
			97 %	1
			N/A	1
Additional finding	MALDI Biotyper (Bruker)	Salmonella sp.	≥2	1
Total:				72

IDENTIFICATION TESTS: NAT

Finding group	Method	Result	Result count
Plesiomonas shigelloides	BD MAX Enteric Bacterial Panel	No pathogens	2
		Plesiomonas shigelloides	6
		Plesiomonas sp.	2
	bioMerieux FilmArray GI Panel	Plesiomonas shigelloides	8
	Hologic/Mobidiag Amplidiag Bacterial GE	No pathogens	1
	In house	No pathogens	1
	Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2	Plesiomonas shigelloides	2
	Seegene Allplex GI-Bacteria(I) Assay	No pathogens	4
	Seegene Allplex GI-Bacteria(II) Assay	No pathogens	1
	Seegene Allplex GI-EB Screening	No pathogens	3
Additional finding	BD MAX Enteric Bacterial Panel	Salmonella sp.	1
	Seegene Allplex GI-Bacteria(I) Assay	Salmonella sp.	1
Total:			32

Report Info

PARTICIPANTS

Altogether 106 laboratories from 19 countries participated in this EQA round.

REPORT INFO

On the front page you can see summaries of overall success rate and sample specific success rates which have been calculated from the scores. The reported results and the scores are presented in the same report but in separate tables.

In general, the expected results are marked with green color. Accepted results may also be indicated with yellow color. Laboratory's own results are indicated with a black radio button . In the participant specific report there is also a laboratory specific scoring table for each sample, where you can find your own result and the scores given.

If you have not reported 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 results in the "Report to the clinician" part can be scored when at least 60% of the participants have reported the correct/expected result and when there are at least three reported results. The report includes a sample specific scoring summary. Laboratory's scores have been converted to percentage (own success rate, % from maximum scores) with a target at 100%. Own success rate is compared with the success rate of all results.

The following general rules are applied:

4 points is reached by reporting the expected correct result

1-3 points is given to results that are partly correct/insufficient regarding the expected finding

0 points is given for an incorrect/false result

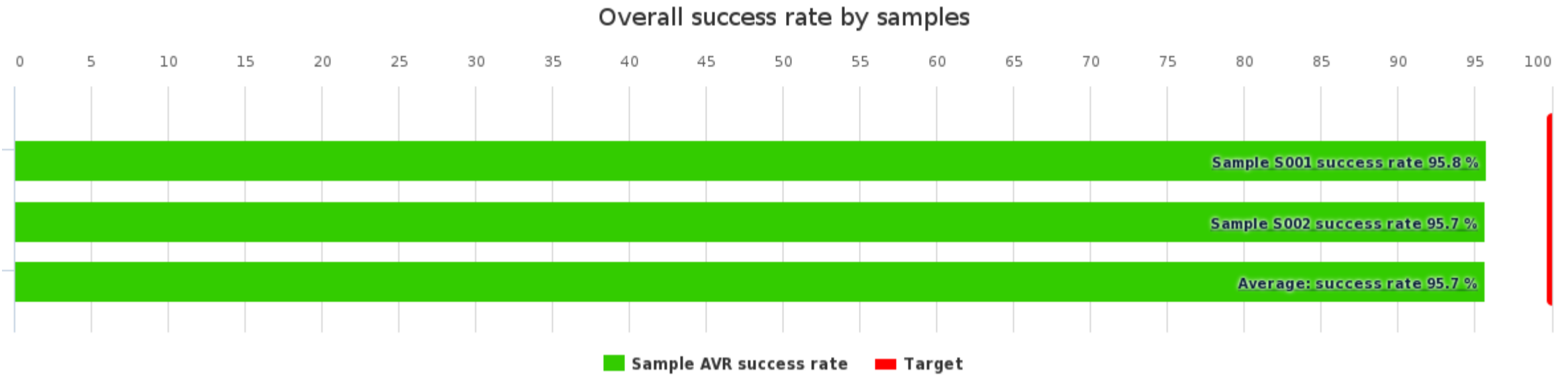
-1 points is given to false additional pathogenic findings

Not in test selection results are excluded from scoring

GLOBAL REPORT

	No of participants	No of responded participants	Response percentage
Faecal culture, April, 1-2023	106	106	100 %

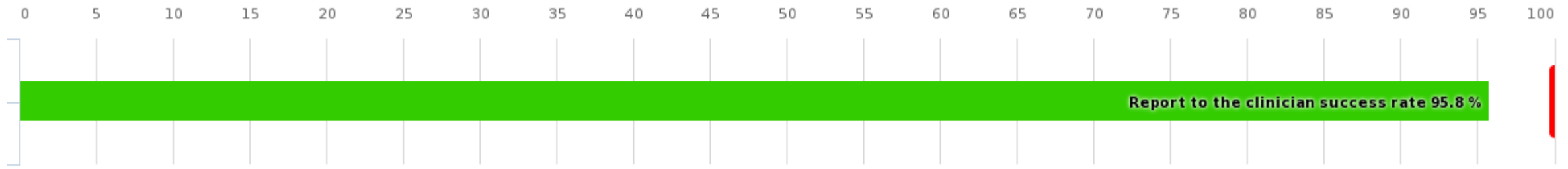
Summary



Summary	AVR success rate
Sample S001	95.8 %
Sample S002	95.7 %
Average:	95.7 %

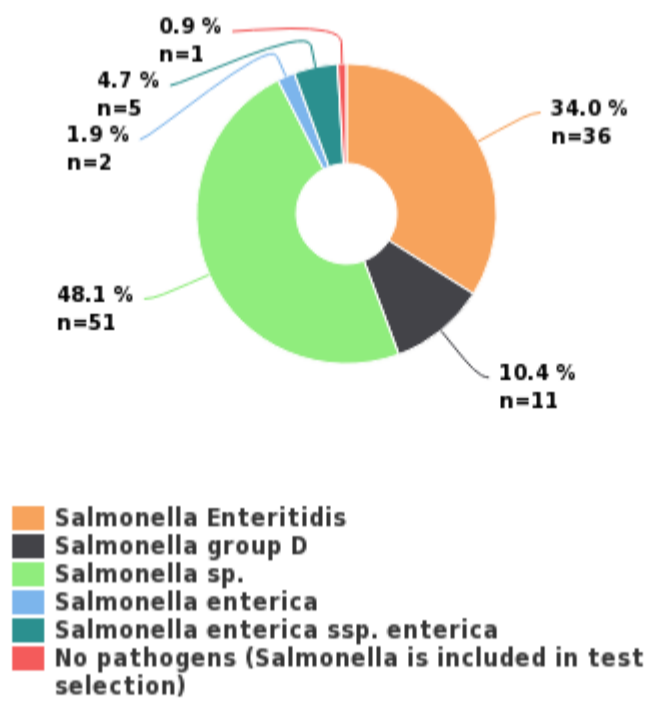
Sample S001 | Salmonella Enteritidis

Sample S001 success rate

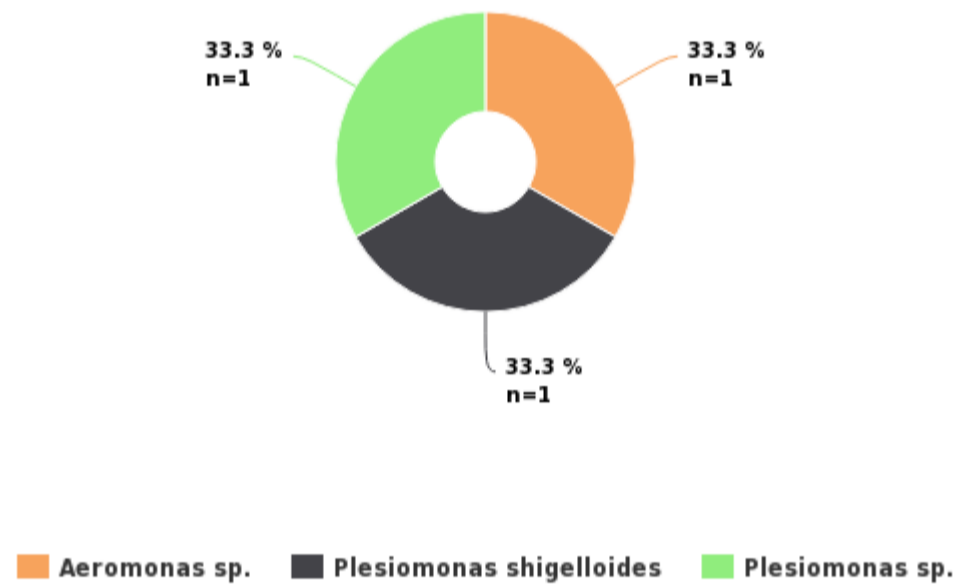


Sample S001 results	Responded	Count
	Report to the clinician	109
	Growth media	189
	Commercial identification test kits and analyzers	34
	Identification tests: MALDI-TOF	79
	Identification tests: NAT	36

Sample S001 Salmonella Enteritidis



Sample S001 Additional finding



REPORT TO THE CLINICIAN

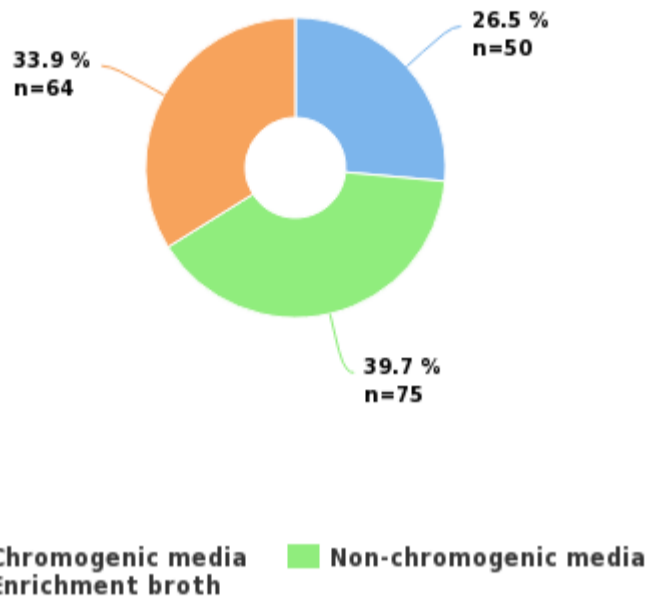
Finding group	Finding	Finding count	Referred	Not referred	AVR success rate
Salmonella Enteritidis		106			96.5 %
	Salmonella Enteritidis	36	12	24	
	Salmonella group D	11	7	4	
	Salmonella sp.	51	42	9	
	Salmonella enterica	2	1	1	
	Salmonella enterica ssp. enterica	5	4	1	
	No pathogens (Salmonella is included in test selection)	1			
Additional finding		3			-
	Aeromonas sp.	1		1	
	Plesiomonas shigelloides	1	1		
	Plesiomonas sp.	1		1	
Total:		109			95.8 %

SCORING SUMMARY

Finding group	Finding	Finding score	Referred	Max score
Salmonella Enteritidis				4
	Salmonella Enteritidis	4		4
	Salmonella group D	4		4
	Salmonella sp.	3	1	4
	Salmonella enterica	3	1	4
	Salmonella enterica ssp. enterica	3	1	4
	No pathogens (Salmonella is included in test selection)	0		4

Additional finding				
	Aeromonas sp.	-1		-
	Plesiomonas shigelloides	-1		-
	Plesiomonas sp.	-1		-
Total:				4

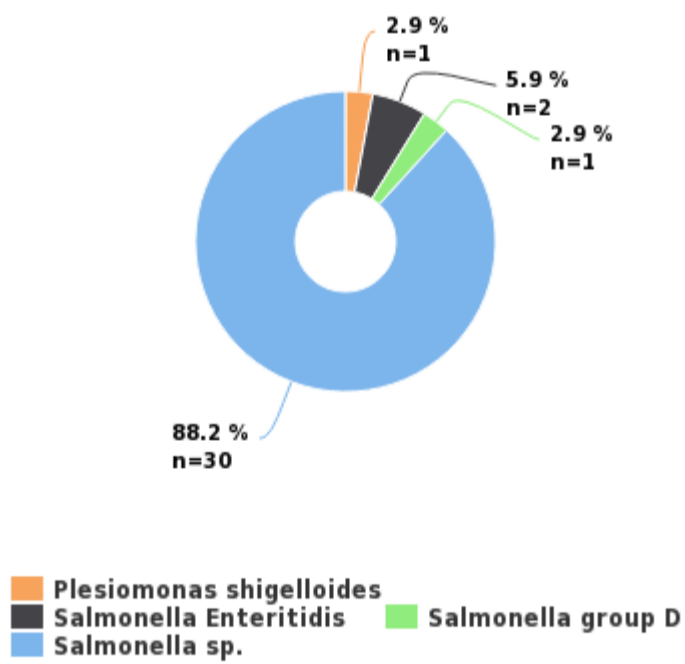
Sample S001 Growth media



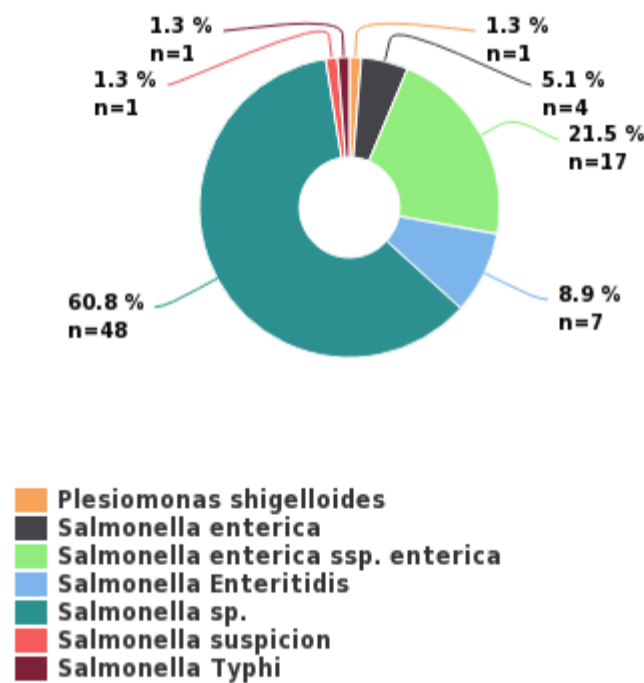
GROWTH MEDIA

Finding group	Result	Result count
Salmonella Enteritidis		185
	Chromogenic media	49
	Non-chromogenic media	72
	Enrichment broth	64
Additional finding		4
	Chromogenic media	1
	Non-chromogenic media	3
Total:		189

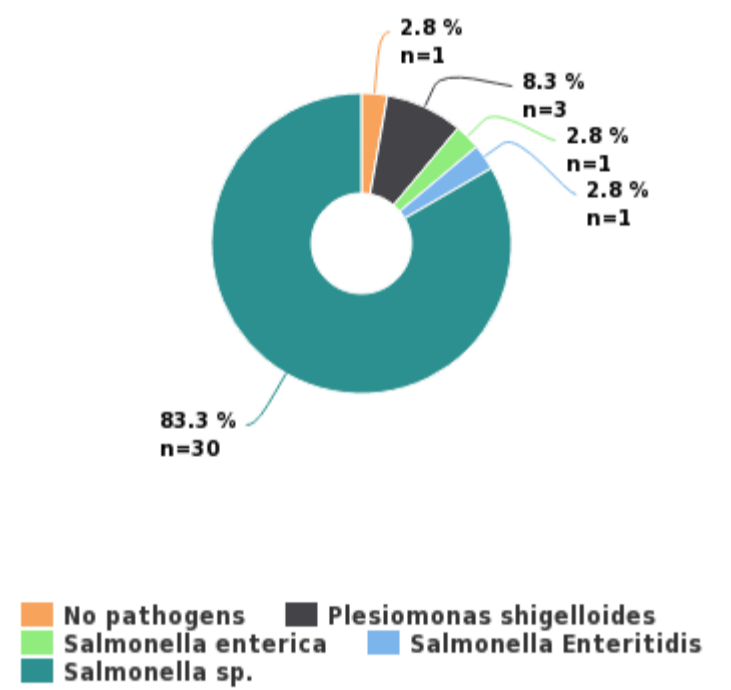
Sample S001 Commercial identification test kits and analyzers



Sample S001 Identification tests: MALDI-TOF



Sample S001 Identification tests: NAT



COMMERCIAL IDENTIFICATION TEST KITS AND ANALYZERS

Finding group	Method	Result	Profile number	Profile number count
Salmonella Enteritidis	API 20E (bioMerieux)	Salmonella Enteritidis	N/A	1
		Salmonella sp.	6704551	1
			6704552	1
		BD Phoenix NMIC/ID panel (Becton Dickinson)	Salmonella sp.	N/A
			414	1

	ID 32GN (bioMerieux)	Salmonella sp.	N/A	1
	Mikrolatest ENTEROtest 24 (ErbaLachema)	Salmonella sp.	N/A	1
	Remel Wellcolex Colour Salmonella Kit (Thermo Scientific)	Salmonella group D	N/A	1
		Salmonella sp.	N/A	1
	VITEK 2 (bioMerieux)	Salmonella sp.	6627735753565010	1
			0017610545566210	2
			0017610541566210	1
			0017610445566210	1
			0015611545566210	1
			0015610545566210	1
			0015610445566210	3
			0015610445566200	1
			0015610441566210	1
			GN	1
			N/A	7
	VITEK 2 Compact 15 (bioMerieux)	Salmonella sp.	0017610445566210	1
			N/A	2
	VITEK 2 Compact 30 (bioMerieux)	Salmonella Enteritidis	0015610445566210	1
Additional finding	VITEK 2 (bioMerieux)	Plesiomonas shigelloides	N/A	1
Total:				34

IDENTIFICATION TESTS: MALDI-TOF

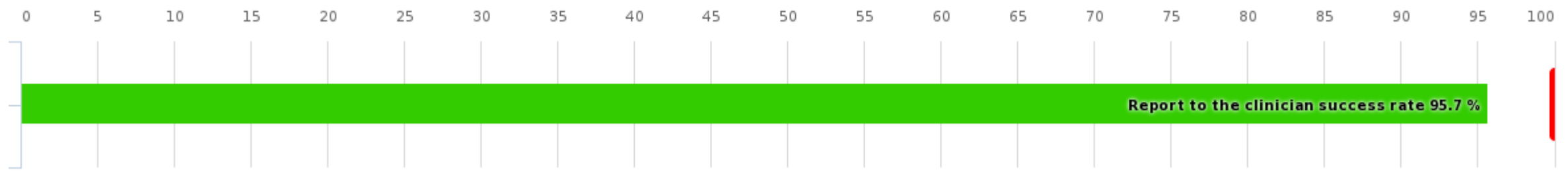
Finding group	Method	Result	Score / Probability %	Score / Probability % count
Salmonella Enteritidis	MALDI Biotyper (Bruker)	Salmonella enterica	≥2	1
			≥1.7..<2	1
		Salmonella enterica ssp. enterica	≥2	1
		Salmonella Enteritidis	≥2	7
		Salmonella sp.	≥2	43
			≥1.7..<2	2
		N/A	1	
		Salmonella Typhi	≥2	1
	VITEK MS (bioMérieux)	Salmonella enterica	99,9 %	2
		Salmonella enterica ssp. enterica	99,9 %	13
			99 %	2
			N/A	1
		Salmonella sp.	99,9 %	1
			99 %	1
	Salmonella suspicion	N/A	1	
Additional finding	MALDI Biotyper (Bruker)	Plesiomonas shigelloides	≥2	1
Total:				79

IDENTIFICATION TESTS: NAT

Finding group	Method	Result	Result count
Salmonella Enteritidis	BD MAX Enteric Bacterial Panel	Salmonella sp.	10
	bioMerieux FilmArray GI Panel	Plesiomonas shigelloides	1
		Salmonella sp.	8
	Hologic/Mobidiag Amplidiag Bacterial GE	Salmonella sp.	2
	In house	Salmonella sp.	2
	Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2	Salmonella sp.	2
	Seegene Allplex GI-Bacteria(I) Assay	Salmonella Enteritidis	1
		Salmonella sp.	5
	Seegene Allplex GI-Bacteria(II) Assay	No pathogens	1
	Seegene Allplex GI-EB Screening	Salmonella enterica	1
		Salmonella sp.	1
Additional finding	BD MAX Enteric Bacterial Panel	Plesiomonas shigelloides	2
Total:			36

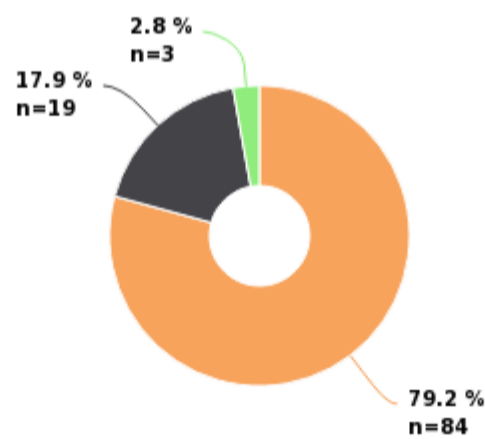
Sample S002 | Plesiomonas shigelloides

Sample S002 success rate



Sample S002 results	Responded	Count
	Report to the clinician	109
	Growth media	152
	Commercial identification test kits and analyzers	25
	Identification tests: MALDI-TOF	72
	Identification tests: NAT	32

Sample S002 Plesiomonas shigelloides



- Plesiomonas shigelloides
- No pathogens (Plesiomonas is not included in test selection)
- No pathogens (Plesiomonas is included in test selection)

Sample S002 Additional finding



- Salmonella sp.
- Shigella flexneri

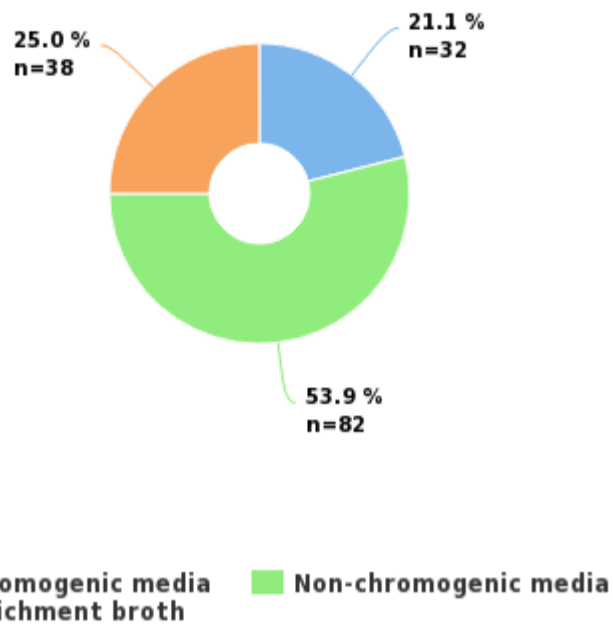
REPORT TO THE CLINICIAN

Finding group	Finding	Finding count	Referred	Not referred	AVR success rate
Plesiomonas shigelloides	Plesiomonas shigelloides	106			96.6 %
	Plesiomonas shigelloides	84	13	71	
	No pathogens (Plesiomonas is not included in test selection)	19			
	No pathogens (Plesiomonas is included in test selection)	3			
Additional finding		3			-
	Salmonella sp.	2	2		
	Shigella flexneri	1		1	
Total:		109			95.7 %

SCORING SUMMARY

Finding group	Finding	Finding score	Max score
Plesiomonas shigelloides	Plesiomonas shigelloides	4	4
	No pathogens (Plesiomonas is not included in test selection)	-	-
	No pathogens (Plesiomonas is included in test selection)	0	4
Additional finding			-
	Salmonella sp.	-1	-
	Shigella flexneri	-1	-
Total:			4

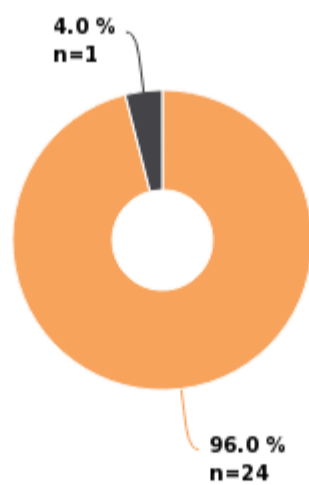
Sample S002 Growth media



GROWTH MEDIA

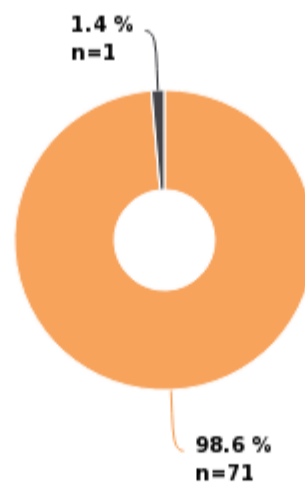
Finding group	Result	Result count
Plesiomonas shigelloides		147
	Chromogenic media	31
	Non-chromogenic media	79
	Enrichment broth	37
Additional finding		5
	Chromogenic media	1
	Non-chromogenic media	3
	Enrichment broth	1
Total:		152

Sample S002 Commercial identification test kits and analyzers



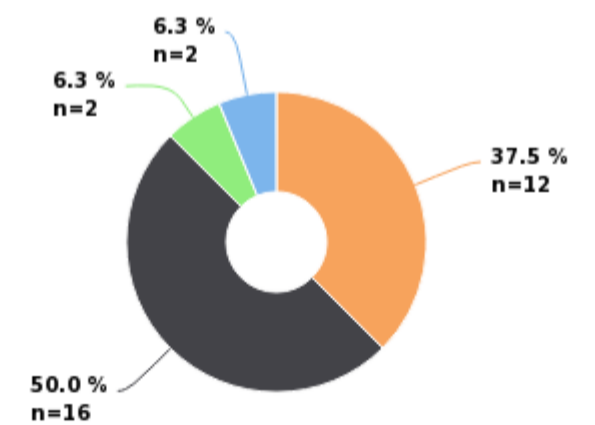
■ Plesiomonas shigelloides ■ Salmonella sp.

Sample S002 Identification tests: MALDI-TOF



■ Plesiomonas shigelloides ■ Salmonella sp.

Sample S002 Identification tests: NAT



■ No pathogens ■ Plesiomonas shigelloides
■ Plesiomonas sp. ■ Salmonella sp.

COMMERCIAL IDENTIFICATION TEST KITS AND ANALYZERS

Finding group	Method	Result	Profile number	Profile number count
Plesiomonas shigelloides	API 20E (bioMerieux)	Plesiomonas shigelloides	7144204	3
			N/A	1
	BD Phoenix NMIC/ID panel (Becton Dickinson)	Plesiomonas shigelloides	414	1
	ID 32GN (bioMerieux)	Plesiomonas shigelloides	N/A	1
	RapID NF Plus (Thermo Scientific)	Plesiomonas shigelloides	130205	1
	VITEK 2 (bioMerieux)	Plesiomonas shigelloides	0425201140447201	1
			0425201140446201	1
			0425201140406201	5
			GN	1
			N/A	5
	VITEK 2 Compact 15 (bioMerieux)	Plesiomonas shigelloides	0425201140406201	1

			0025201040006201	1
			N/A	1
	VITEK 2 Compact 30 (bioMérieux)	Plesiomonas shigelloides	0425201140406201	1
Additional finding	VITEK 2 (bioMérieux)	Salmonella sp.	N/A	1
Total:				25

IDENTIFICATION TESTS: MALDI-TOF

Finding group	Method	Result	Score / Probability %	Score / Probability % count
Plesiomonas shigelloides	MALDI Biotyper (Bruker)	Plesiomonas shigelloides	≥2	52
			N/A	1
	VITEK MS (bioMérieux)	Plesiomonas shigelloides	99,9 %	13
			99 %	3
			97 %	1
		N/A	1	
Additional finding	MALDI Biotyper (Bruker)	Salmonella sp.	≥2	1
Total:				72

IDENTIFICATION TESTS: NAT

Finding group	Method	Result	Result count
Plesiomonas shigelloides	BD MAX Enteric Bacterial Panel	No pathogens	2
		Plesiomonas shigelloides	6
		Plesiomonas sp.	2
	bioMérieux FilmArray GI Panel	Plesiomonas shigelloides	8
	Hologic/Mobidiag Amplidiag Bacterial GE	No pathogens	1
	In house	No pathogens	1
	Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2	Plesiomonas shigelloides	2
	Seegene Allplex GI-Bacteria(I) Assay	No pathogens	4
	Seegene Allplex GI-Bacteria(II) Assay	No pathogens	1
	Seegene Allplex GI-EB Screening	No pathogens	3
Additional finding	BD MAX Enteric Bacterial Panel	Salmonella sp.	1
	Seegene Allplex GI-Bacteria(I) Assay	Salmonella sp.	1
Total:			32

Report Info

PARTICIPANTS

Altogether 106 laboratories from 19 countries participated in this EQA round.

REPORT INFO

On the front page you can see summaries of overall success rate and sample specific success rates which have been calculated from the scores. The reported results and the scores are presented in the same report but in separate tables.

In general, the expected results are marked with green color. Accepted results may also be indicated with yellow color. Laboratory's own results are indicated with a black radio button . In the participant specific report there is also a laboratory specific scoring table for each sample, where you can find your own result and the scores given.

If you have not reported 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 results in the "Report to the clinician" part can be scored when at least 60% of the participants have reported the correct/expected result and when there are at least three reported results. The report includes a sample specific scoring summary. Laboratory's scores have been converted to percentage (own success rate, % from maximum scores) with a target at 100%. Own success rate is compared with the success rate of all results.

The following general rules are applied:

4 points is reached by reporting the expected correct result

1-3 points is given to results that are partly correct/insufficient regarding the expected finding

0 points is given for an incorrect/false result

-1 points is given to false additional pathogenic findings

Not in test selection results are excluded from scoring

External Quality Assessment Scheme

Faecal culture Round 1, 2023

Specimens

The round included two lyophilized samples. The sample lots were tested in an accredited Finnish reference 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 use of samples only for external quality assessment. The consent of Labquality must be requested for the use of the microbial strains contained in the samples for other purposes.

The content of the samples was as follows:

Sample S001 (LQ761623011)
Salmonella Enteritidis GL0092
Klebsiella pneumoniae GL0097

Sample S002 (LQ761623012)
Plesiomonas shigelloides GL0344
Enterococcus faecalis GL0038

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

Sample S001 contained *Salmonella* Enteritidis as a pathogen and *Klebsiella pneumoniae* as a normal inhabitant of intestinal microbiota. The expected result was *Salmonella* Enteritidis or group D *Salmonella*. *Salmonella* sp., *Salmonella enterica* or *Salmonella enterica* ssp. *enterica* was accepted only if the sample would have been sent to a reference laboratory for further typing. Of the 106 laboratories participating in this Faecal culture EQA, all reported results for this round. Of the participants, 89% (94/106) reported the expected result. Two laboratories reported unexpected additional *Aeromonas* or *Plesiomonas* finding, and one laboratory had probably mixed up the samples and reported *Plesiomonas shigelloides* from this sample.

Sample S002 contained *Plesiomonas shigelloides* as a pathogen and *Enterococcus faecalis* as a normal inhabitant of intestinal microbiota. The expected result was *Plesiomonas shigelloides*. Of the laboratories whose test selection includes *Plesiomonas*, 97% (84/87) reported the expected result. One participant whose test selection did not include *Plesiomonas* reported unexpected *Shigella flexneri* finding and two participants reported falsely *Salmonella* from this sample.

To conclude, the overall performance was good in this round and mixed samples were the most common cause for false results.

Exceptions in scoring

No exceptions.

2023-05-22

FINAL REPORT

Product no. 5190

Subcontracting: Sample pretesting

Samples sent	2023-03-28
Round closed	2023-04-21
Expected results	2023-04-26
Final report	2023-05-22

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

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End of report

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