

External Quality Assessment Scheme

Multiple respiratory virus, nucleic acid detection Round 1, 2023

Specimens

Please find enclosed 3 simulated swab samples S001, S002 and S003.

Caution

Quality control specimens must be handled with the same care as patient samples, i.e. as potential transmitters of serious diseases. According to the sample manufacturer the specimens do not contain viable microbes. However, no known test method can offer complete assurance that the specimens will not transmit any infectious diseases.

Not for patient use.

Examinations

Influenza A virus NAT
Influenza B virus NAT
Influenza A/B virus NAT*
RS virus NAT
SARS-CoV-2 NAT

***Note!** The new analyte, influenza A/B virus NAT, has been moved to the third position in the result form list. This analyte is for methods that do not differentiate between influenza A and B viruses.

Storage and use

After arrival, the samples should be stored at +2...30 °C and used as soon as possible.

1. Open the foil package. Pay attention to avoid contamination.
2. Remove the swab from the foil package and place the swab into a sample collection tube / transport media. Rotate the swab to dislodge as much material as possible. Remove the swab by pressing it towards the walls of the elution vial. You can also cut the swab into the sample collection tube.
3. Recap the collection tube and mix thoroughly.
4. Follow the test manufacturer's instructions for sample extraction and detection.

Result reporting

Please enter the results and methods via LabScala (www.labscala.com). If you cannot find your test from the registry, please contact the EQA Coordinator. Report only the results of examinations that are in use in your laboratory. All reported examinations will be scored.

S001



S003



S002



2023-01-31

INSTRUCTIONS

Product no. 5562
LQ776323011-013/CA

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 **February 27, 2023.**

The expected results of the round are published in LabScala in the View Reports section by March 2, 2023.

Inquiries

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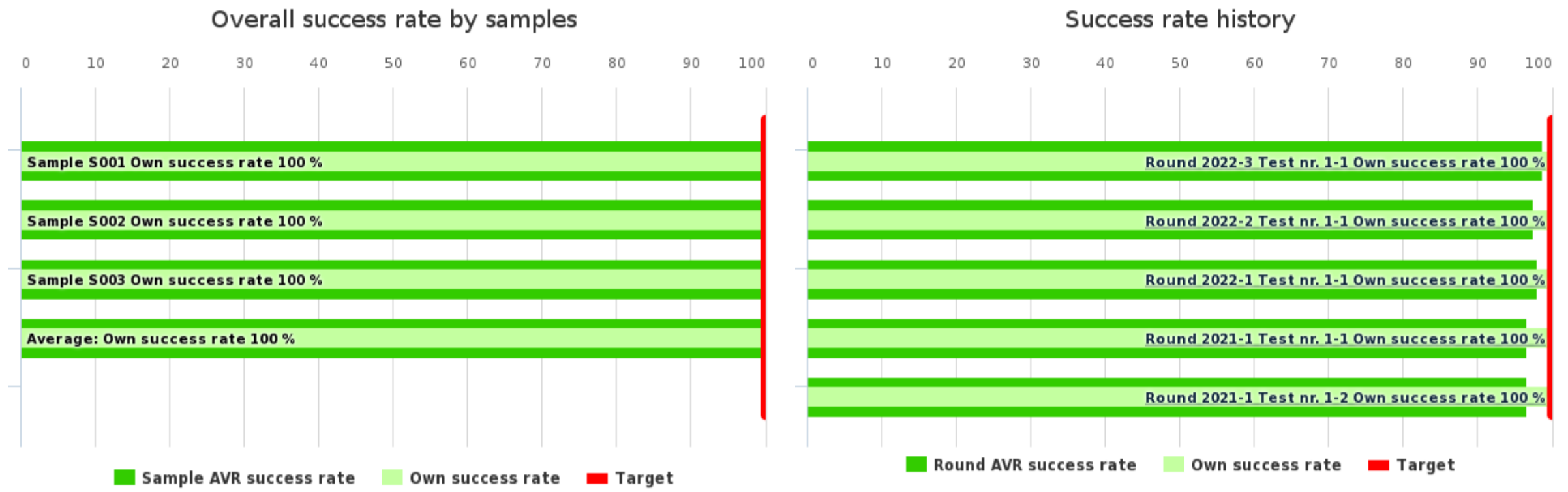
info@labquality.fi
www.labquality.com



Client report

	No of participants	No of responded participants	Response percentage
Multiple respiratory virus nucleic acid detection, February, 1-2023	105	102	97.1 %

Summary

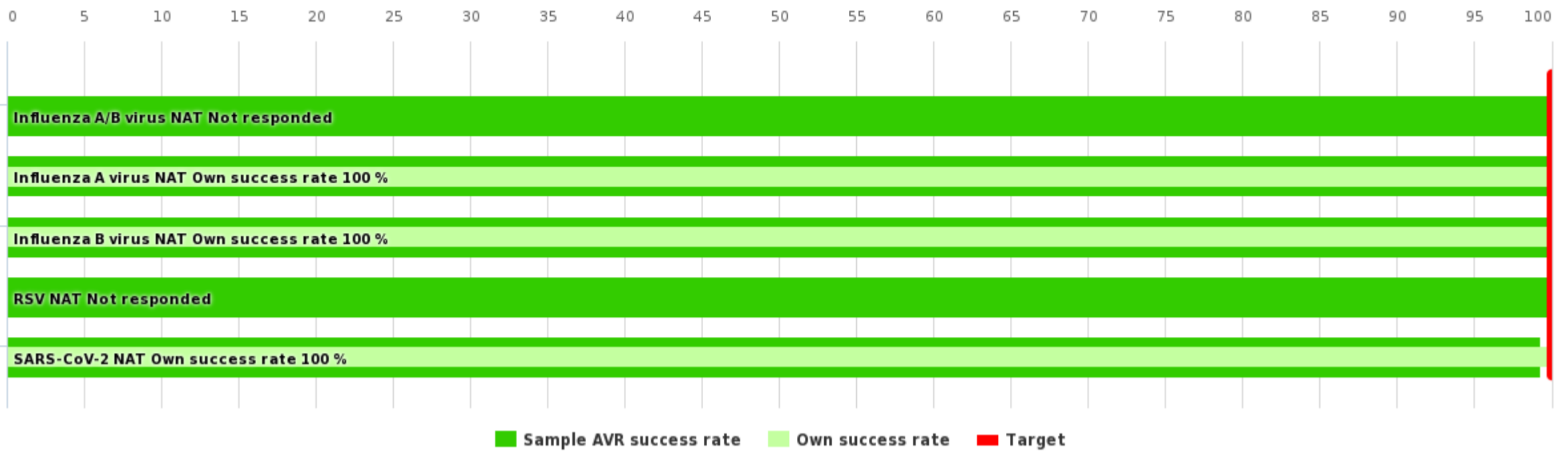


Summary	Own score	Max score	Own success rate	Difference	AVR success rate
Sample S001	6	6	100 %	0.2 %	99.8 %
Sample S002	6	6	100 %	0.6 %	99.4 %
Sample S003	6	6	100 %	0.4 %	99.6 %
Average:			100 %	0.4 %	99.6 %

History	Test nr.	Own success rate	Difference	AVR success rate
Round 2022-3	1-1	100 %	1.3 %	98.7 %
Round 2022-2	1-1	100 %	2.4 %	97.6 %
Round 2022-1	1-1	100 %	2 %	98 %
Round 2021-1	1-1	100 %	3.4 %	96.6 %
Round 2021-1	1-2	100 %	3.4 %	96.6 %

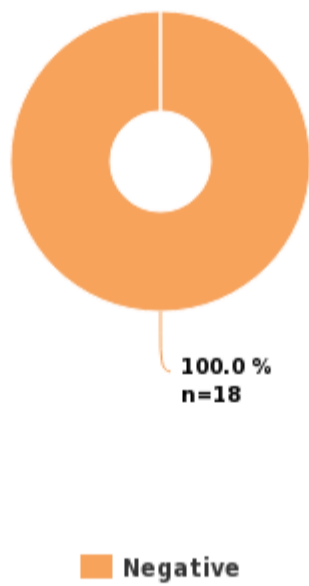
Sample S001 | SARS-CoV-2

Sample S001 success rate

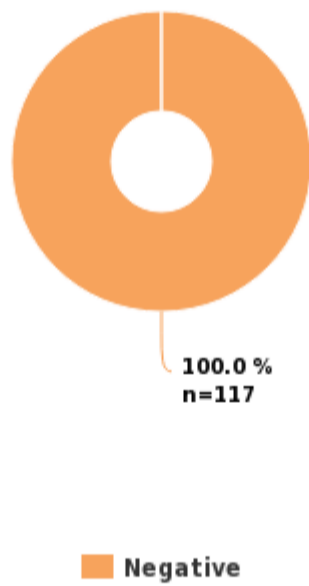


Sample S001 results	Responded	Own score	Max score	Own success rate	Difference	AVR success rate	Count
	Influenza A/B virus NAT	-	-	-	-	100 %	18
	Influenza A virus NAT	2	2	100 %	0 %	100 %	117
	Influenza B virus NAT	2	2	100 %	0 %	100 %	116
	RSV NAT	-	-	-	-	100 %	116
	SARS-CoV-2 NAT	2	2	100 %	0.7 %	99.3 %	140
Total:		6	6	100 %	0.2 %	99.8 %	507

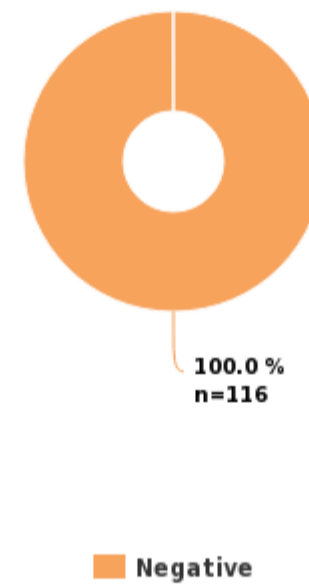
Sample S001 Influenza A/B virus NAT



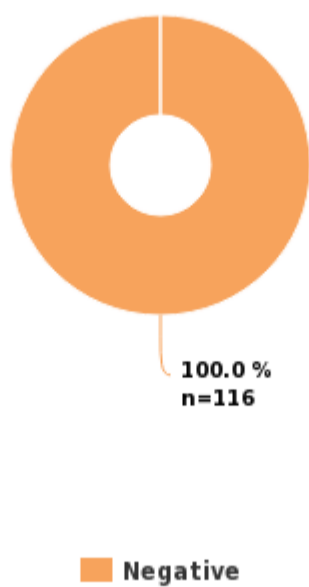
Sample S001 Influenza A virus NAT



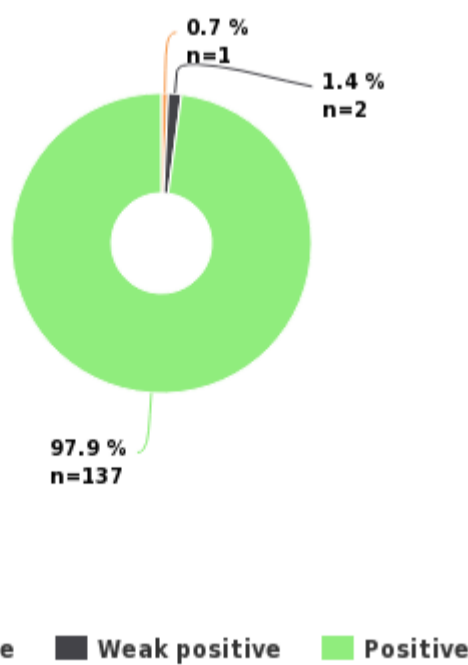
Sample S001 Influenza B virus NAT



Sample S001 RSV NAT



Sample S001 SARS-CoV-2 NAT



Influenza A/B virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		18		-				100 %
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2					
		Eurobio Scientific EurobioPlex FluCoSyn		9					
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3					
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2					
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1					
	Total:		18		-	-	-	-	100 %

Influenza A virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	<input checked="" type="radio"/> Negative		117		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		4					
		Abbott ID NOW Influenza A & B 2		1					
		AusDiagnostics Respiratory Viruses panel		1					
		BD SARS-CoV-2/Flu for BD MAX System		6					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53					
		Cepheid Xpert Xpress Flu/RSV		2					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4					
		CerTest VIASURE Flu A + Flu B		1					
		CerTest VIASURE Flu A, Flu B & RSV		1					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1					
		EUROIMMUN EUROArray PneuVir		1					
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag RESP-4		2					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		2					
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1					
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1					
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		4					
		Roche Liat cobas Influenza A/B & RSV		2					
		<input checked="" type="radio"/> Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7					
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		3					
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8					
	Total:		117		2	2	100 %	0 %	100 %

Influenza B virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	<input checked="" type="radio"/> Negative		116		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		4					

	Abbott ID NOW Influenza A & B 2		1						
	AusDiagnostics Respiratory Viruses panel		1						
	BD SARS-CoV-2/Flu for BD MAX System		6						
	bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4						
	Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1						
	Cepheid Xpert Xpress CoV-2/Flu/RSV plus		54						
	Cepheid Xpert Xpress Flu/RSV		3						
	Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		2						
	CerTest VIASURE Flu A + Flu B		1						
	CerTest VIASURE Flu A, Flu B & RSV		1						
	CerTest VIASURE SARS-CoV-2, Flu & RSV		1						
	EUROIMMUN EUROArray PneuVir		1						
	Euroimmun EUROrealTime SARS-CoV-2/Influenza A/B		1						
	In-house NAT		1						
	Mobidiag Amplidiag RESP-4		1						
	Mobidiag Novodiag RESP-4		2						
	NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		2						
	NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1						
	PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1						
	QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3						
	Roche Liat cobas Influenza A/B & RSV		2						
	Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7						
	SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		3						
	Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8						
	Total:		116		2	2	100 %	0 %	100 %

RSV NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		116		-				100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		4					
		Abbott ID NOW RSV		1					
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		1					
		AusDiagnostics Respiratory Viruses panel		1					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53					
		Cepheid Xpert Xpress Flu/RSV		1					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		3					
		CerTest VIASURE Flu A, Flu B & RSV		1					
		CerTest VIASURE RSV A+B Real Time PCR Detection Kit		1					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		2					
		Eurobio Scientific EurobioPlex FluCoSyn		9					
		EUROIMMUN EUROArray PneuVir		1					
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag RESP-4		2					

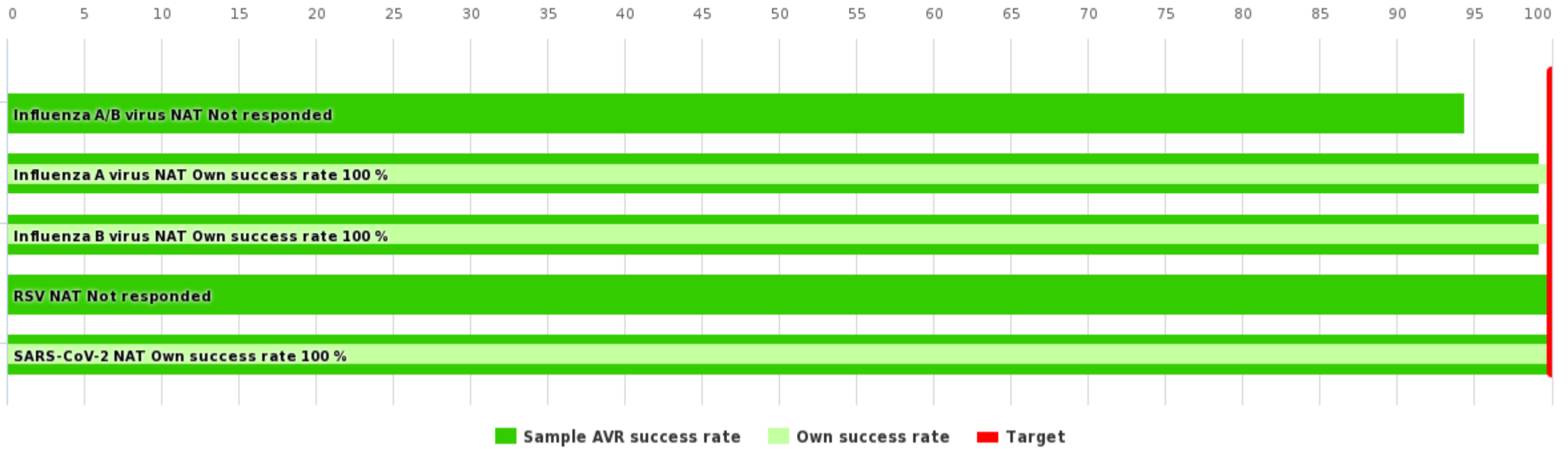
	NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip	2						
	PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR	1						
	QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel	4						
	Roche Liat cobas Influenza A/B & RSV	3						
	Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit	1						
	SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2	3						
	Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay	8						
	Total:	116						100 %

SARS-CoV-2 NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				0 %
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		1					
	Weak positive		2		-				100 %
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		1					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1					
	<input checked="" type="radio"/> Positive		137		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		4					
		Abbott ID NOW COVID-19 2.0		1					
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2					
		AusDiagnostics Respiratory Viruses panel		1					
		BD SARS-CoV-2/Flu for BD MAX System		6					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2 plus		3					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		50					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		6					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1					
		ELITechGroup SARS-CoV-2 ELITe MGB Kit		1					
		Eurobio Scientific EurobioPlex FluCoSyn		9					
		EUROIMMUN EUROArray PneuVir		1					
		EUROIMMUN EURORealTime SARS-CoV-2 Fast		1					
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1					
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		2					
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag COVID-19		1					
		Mobidiag Novodiag RESP-4		1					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1					
		NovaTec Immundiagnostica GSD NovaPrime SARS-CoV-2 (COVID-19) RT-PCR		1					
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1					
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1					
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		5					

		☉ Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7						
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1						
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4						
		Seegene Allplex SARS-CoV-2 Assay		2						
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		7						
		Vitassay qPCR SARS-CoV-2		2						
	Total:			140		2	2	100 %	0.7 %	99.3 %

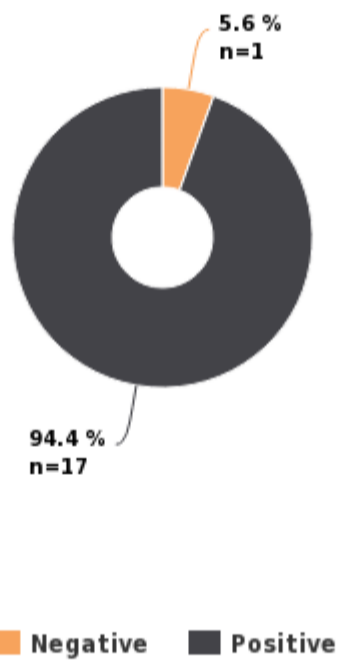
Sample S002 | Influenza B virus

Sample S002 success rate

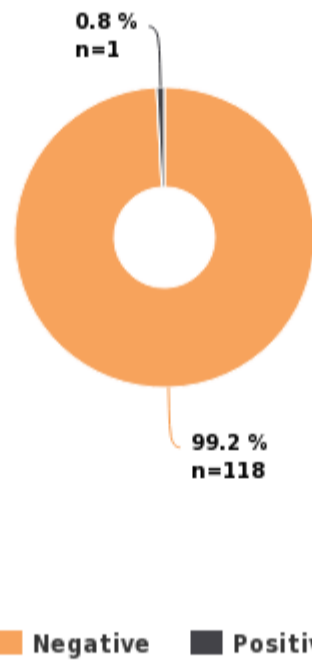


Sample S002 results	Responded	Own score	Max score	Own success rate	Difference	AVR success rate	Count
	Influenza A/B virus NAT	-	-	-	-	94.4 %	18
	Influenza A virus NAT	2	2	100 %	0.8 %	99.2 %	119
	Influenza B virus NAT	2	2	100 %	0.8 %	99.2 %	119
	RSV NAT	-	-	-	-	100 %	117
	SARS-CoV-2 NAT	2	2	100 %	0 %	100 %	136
	Total:	6	6	100 %	0.6 %	99.4 %	509

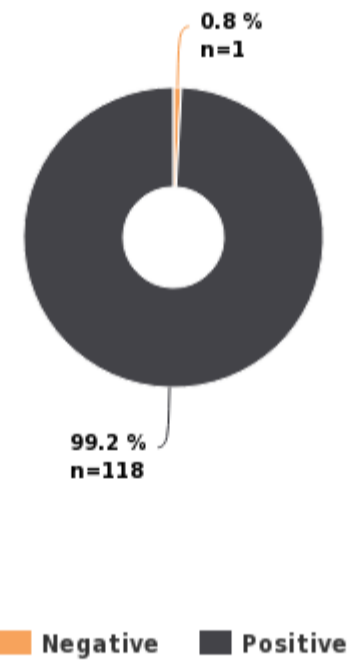
Sample S002 Influenza A/B virus NAT



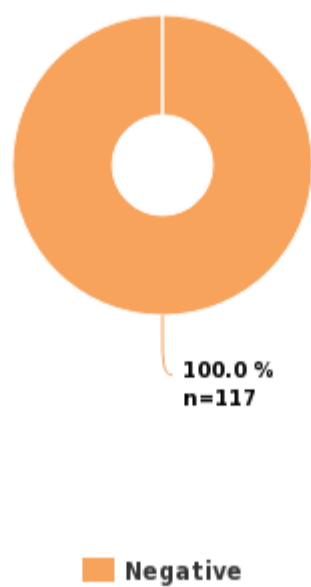
Sample S002 Influenza A virus NAT



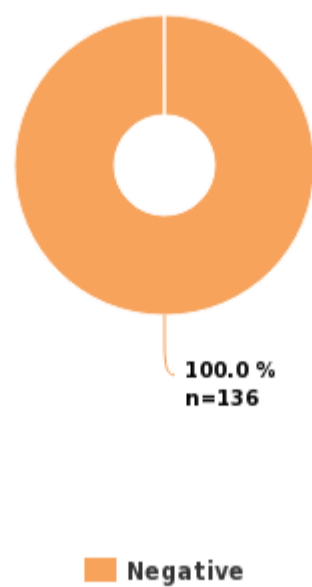
Sample S002 Influenza B virus NAT



Sample S002 RSV NAT



Sample S002 SARS-CoV-2 NAT



Influenza A/B virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				0 %
		Imogena GeneMAP Respiratory Viral PCR Panel 2		1					
	Positive		17		-				100 %
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2					
		Eurobio Scientific EurobioPlex FluCoSyn		9					
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3					
		Imogena GeneMAP Respiratory Viral PCR Panel 2		1					
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1					
	Total:		18		-	-	-	-	94.4 %

Influenza A virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	<input checked="" type="radio"/> Negative		118		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		4					
		Abbott ID NOW Influenza A & B 2		2					
		AusDiagnostics Respiratory Viruses panel		1					
		BD SARS-CoV-2/Flu for BD MAX System		6					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53					
		Cepheid Xpert Xpress Flu/RSV		4					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4					
		CerTest VIASURE Flu A + Flu B		1					
		CerTest VIASURE Flu A, Flu B & RSV		1					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		2					
		EUROIMMUN EUROArray PneuVir		1					
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag RESP-4		1					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1					
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1					
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1					
		QIAGEN QIAstat-Dx Respiratory Panel V2		1					
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3					
		Roche Liat cobas Influenza A/B & RSV		2					
		<input checked="" type="radio"/> Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		6					
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		3					
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8					
	Positive		1		-				0 %
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		1					
	Total:		119		2	2	100 %	0.8 %	99.2 %

Influenza B virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				0 %
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		1					
	<input checked="" type="radio"/> Positive		118		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		4					
		Abbott ID NOW Influenza A & B 2		2					
		AusDiagnostics Respiratory Viruses panel		1					
		BD SARS-CoV-2/Flu for BD MAX System		6					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53					
		Cepheid Xpert Xpress Flu/RSV		4					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		5					
		CerTest VIASURE Flu A + Flu B		1					
		CerTest VIASURE Flu A, Flu B & RSV		1					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1					
		EUROIMMUN EUROArray PneuVir		1					
		Euroimmun EUROrealTime SARS-CoV-2/Influenza A/B		1					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag RESP-4		1					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1					
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1					
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1					
		QIAGEN QIAstat-Dx Respiratory Panel V2		1					
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3					
		Roche Liat cobas Influenza A/B & RSV		2					
		<input checked="" type="radio"/> Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		6					
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		3					
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8					
	Total:		119		2	2	100 %	0.8 %	99.2 %

RSV NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		117		-				100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		4					
		Abbott ID NOW RSV		1					
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		1					
		AusDiagnostics Respiratory Viruses panel		1					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53					
		Cepheid Xpert Xpress Flu/RSV		3					

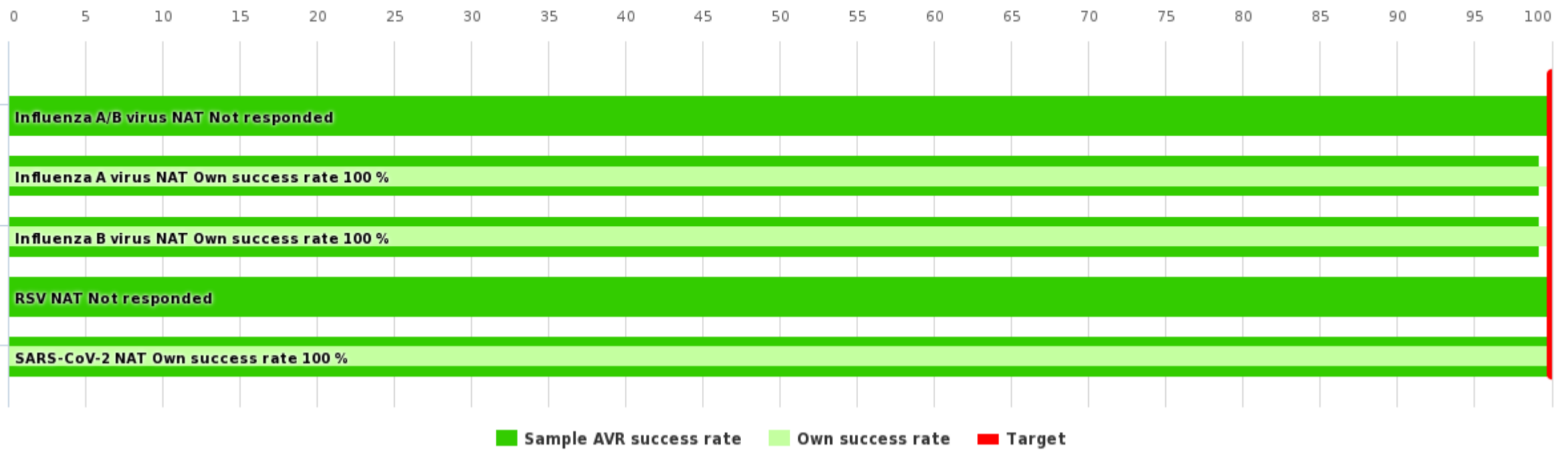
	Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV	5						
	CerTest VIASURE Flu A, Flu B & RSV	1						
	CerTest VIASURE RSV A+B Real Time PCR Detection Kit	1						
	CerTest VIASURE SARS-CoV-2, Flu & RSV	1						
	Eurobio Scientific EurobioPlex FluCoSyn	9						
	EUROIMMUN EUROArray PneuVir	1						
	Imogena GeneMAP Respiratory Viral PCR Panel 2	2						
	In-house NAT	1						
	Mobidiag Amplidiag RESP-4	1						
	Mobidiag Novodiag RESP-4	1						
	NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip	1						
	PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR	1						
	QIAGEN QIAstat-Dx Respiratory Panel V2	1						
	QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel	3						
	Roche Liat cobas Influenza A/B & RSV	3						
	Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit	1						
	SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2	3						
	Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay	8						
	Total:	117	-	-	-	-	-	100 %

SARS-CoV-2 NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	<input checked="" type="radio"/> Negative		136		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		4					
		Abbott ID NOW COVID-19 2.0		1					
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2					
		AusDiagnostics Respiratory Viruses panel		1					
		BD SARS-CoV-2 Reagents for BD MAX System		2					
		BD SARS-CoV-2/Flu for BD MAX System		4					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2 plus		3					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		52					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		6					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1					
		ELITechGroup SARS-CoV-2 ELITe MGB Kit		1					
		Eurobio Scientific EurobioPlex FluCoSyn		9					
		EUROIMMUN EUROArray PneuVir		1					
		EUROIMMUN EURORealTime SARS-CoV-2 Fast		1					
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1					
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3					
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag COVID-19		1					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1					

		NovaTec Immundiagnostica GSD NovaPrime SARS-CoV-2 (COVID-19) RT-PCR		2					
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1					
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		4					
		<input checked="" type="radio"/> Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7					
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1					
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4					
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		7					
		Vitassay qPCR SARS-CoV-2		2					
	Total:			136		2	2	100 %	0 % 100 %

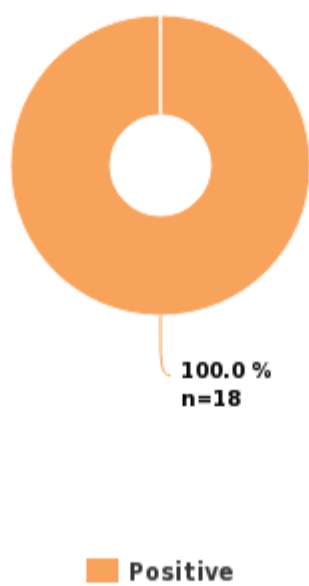
Sample S003 | Influenza A virus

Sample S003 success rate

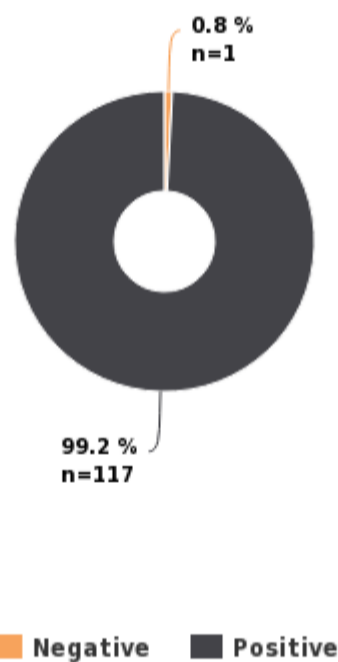


Sample S003 results	Responded	Own score	Max score	Own success rate	Difference	AVR success rate	Count
	Influenza A/B virus NAT	-	-	-	-	100 %	18
	Influenza A virus NAT	2	2	100 %	0.8 %	99.2 %	118
	Influenza B virus NAT	2	2	100 %	0.8 %	99.2 %	118
	RSV NAT	-	-	-	-	100 %	116
	SARS-CoV-2 NAT	2	2	100 %	0 %	100 %	135
	Total:	6	6	100 %	0.4 %	99.6 %	505

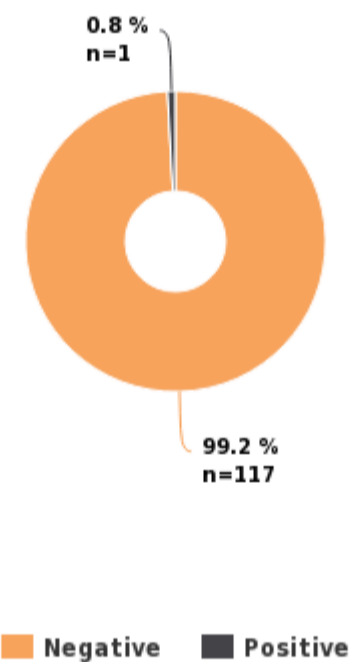
Sample S003 Influenza A/B virus NAT



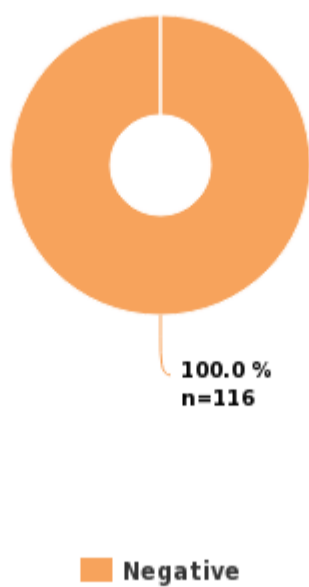
Sample S003 Influenza A virus NAT



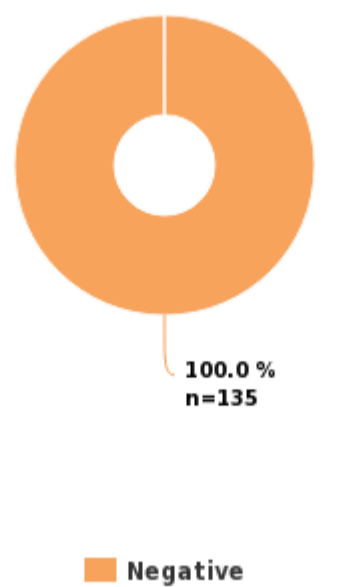
Sample S003 Influenza B virus NAT



Sample S003 RSV NAT



Sample S003 SARS-CoV-2 NAT



Influenza A/B virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		18		-				100 %
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2					
		Eurobio Scientific EurobioPlex FluCoSyn		9					
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3					
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2					
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1					
	Total:		18		-	-	-	-	100 %

Influenza A virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				0 %
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		1					
	<input checked="" type="radio"/> Positive		117		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		3					
		Abbott ID NOW Influenza A & B 2		2					
		BD SARS-CoV-2/Flu for BD MAX System		6					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		55					
		Cepheid Xpert Xpress Flu/RSV		3					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4					
		CerTest VIASURE Flu A + Flu B		1					
		CerTest VIASURE Flu A, Flu B & RSV		1					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1					
		EUROIMMUN EUROArray PneuVir		1					
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag RESP-4		1					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1					
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1					
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1					
		QIAGEN QIAstat-Dx Respiratory Panel V2		1					
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3					
		Roche Liat cobas Influenza A/B & RSV		3					
		<input checked="" type="radio"/> Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		5					
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4					
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8					
	Total:		118		2	2	100 %	0.8 %	99.2 %

Influenza B virus NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	<input checked="" type="radio"/> Negative		117		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					

		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		3					
		Abbott ID NOW Influenza A & B 2		2					
		BD SARS-CoV-2/Flu for BD MAX System		6					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		55					
		Cepheid Xpert Xpress Flu/RSV		3					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4					
		CerTest VIASURE Flu A + Flu B		1					
		CerTest VIASURE Flu A, Flu B & RSV		1					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1					
		EUROIMMUN EUROArray PneuVir		1					
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag RESP-4		1					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1					
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1					
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1					
		QIAGEN QIAstat-Dx Respiratory Panel V2		1					
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3					
		Roche Liat cobas Influenza A/B & RSV		3					
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		5					
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4					
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8					
	Positive		1		-				0 %
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		1					
	Total:		118		2	2	100 %	0.8 %	99.2 %

RSV NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		116		-				100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		3					
		Abbott ID NOW RSV		1					
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		1					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		55					
		Cepheid Xpert Xpress Flu/RSV		3					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		3					
		CerTest VIASURE Flu A, Flu B & RSV		1					
		CerTest VIASURE RSV A+B Real Time PCR Detection Kit		1					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1					
		Eurobio Scientific EurobioPlex FluCoSyn		9					
		EUROIMMUN EUROArray PneuVir		1					

	Imogena GeneMAP Respiratory Viral PCR Panel 2	2						
	In-house NAT	1						
	Mobidiag Amplidiag RESP-4	1						
	Mobidiag Novodiag RESP-4	1						
	NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip	1						
	PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR	1						
	QIAGEN QIAstat-Dx Respiratory Panel V2	1						
	QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel	3						
	Roche Liat cobas Influenza A/B & RSV	3						
	Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit	1						
	SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2	4						
	Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay	8						
	Total:	116			-	-	-	100 %

SARS-CoV-2 NAT	Interpretation	Method	Interpretation count	Method count	Own score	Max score	Own success rate	Difference	AVR success rate
	<input checked="" type="radio"/> Negative		135		2	2	100 %	0 %	100 %
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3					
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1					
		Abbott Alinity m Resp-4-Plex assay		3					
		Abbott ID NOW COVID-19 2.0		1					
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1					
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2					
		BD SARS-CoV-2 Reagents for BD MAX System		1					
		BD SARS-CoV-2/Flu for BD MAX System		6					
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4					
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1					
		Cepheid Xpert Xpress CoV-2 plus		2					
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53					
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4					
		CerTest VIASURE SARS-CoV-2, Flu & RSV		2					
		ELITechGroup SARS-CoV-2 ELITe MGB Kit		1					
		Eurobio Scientific EurobioPlex FluCoSyn		9					
		EUROIMMUN EUROArray PneuVir		1					
		EUROIMMUN EURORealTime SARS-CoV-2 Fast		1					
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1					
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3					
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2					
		In-house NAT		1					
		Mobidiag Amplidiag RESP-4		1					
		Mobidiag Novodiag COVID-19		1					
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1					
		NovaTec Immundiagnostica GSD NovaPrime SARS-CoV-2 (COVID-19) RT-PCR		2					
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1					
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		4					
		<input checked="" type="radio"/> Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7					

		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1					
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		5					
		Seegene Allplex SARS-CoV-2 Assay		1					
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		6					
		Vitassay qPCR SARS-CoV-2		2					
	Total:		135		2	2	100 %	0 %	100 %

Report Info**PARTICIPANTS**

Altogether 105 laboratories from 12 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.

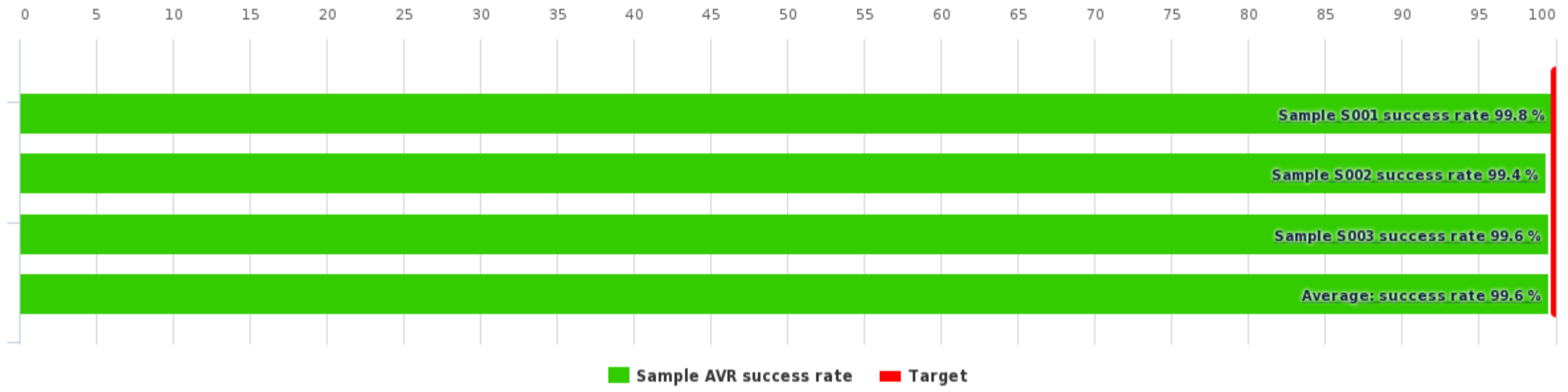
The success rate for the entire round (AVR success rate) is calculated from the total number of scores given to the results per sample (all scores/maximum scores*100). The AVG success rate of the entire round is the average of the sample success rates. The difference in the Laboratory's Own success rate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

GLOBAL REPORT

	No of participants	No of responded participants	Response percentage
Multiple respiratory virus nucleic acid detection, February, 1-2023	105	102	97.1 %

Summary

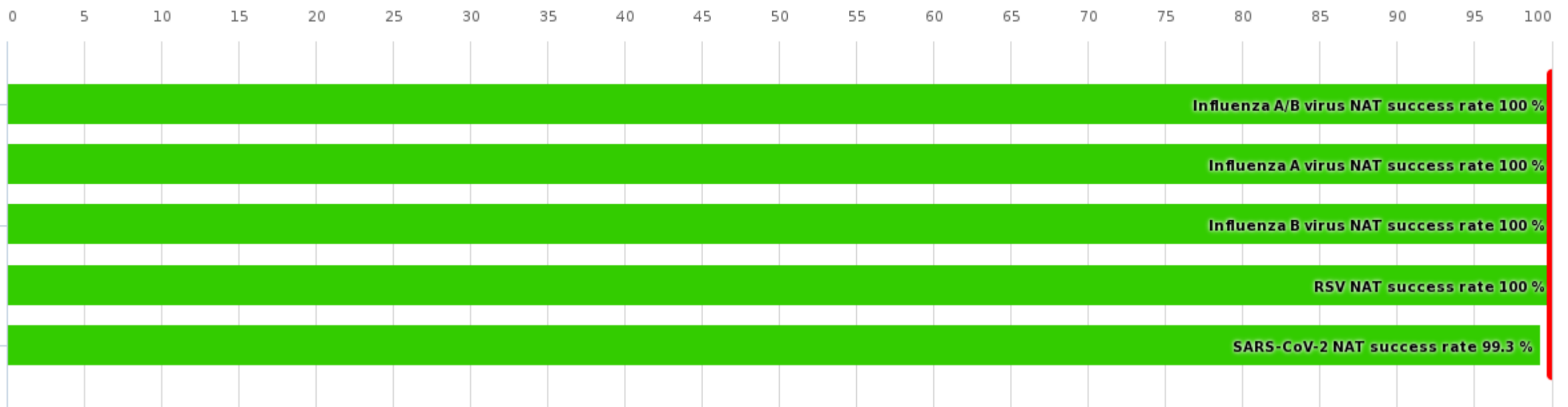
Overall success rate by samples



Summary	AVR success rate
Sample S001	99.8 %
Sample S002	99.4 %
Sample S003	99.6 %
Average:	99.6 %

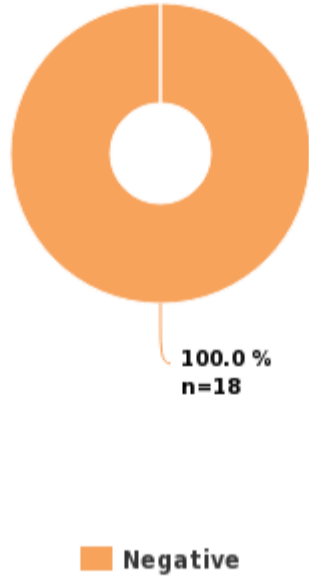
Sample S001 | SARS-CoV-2

Sample S001 success rate



Sample S001 results	Responded	AVR success rate	Count
	Influenza A/B virus NAT	100 %	18
	Influenza A virus NAT	100 %	117
	Influenza B virus NAT	100 %	116
	RSV NAT	100 %	116
	SARS-CoV-2 NAT	99.3 %	140
	Total:	99.8 %	507

Sample S001 Influenza A/B virus NAT



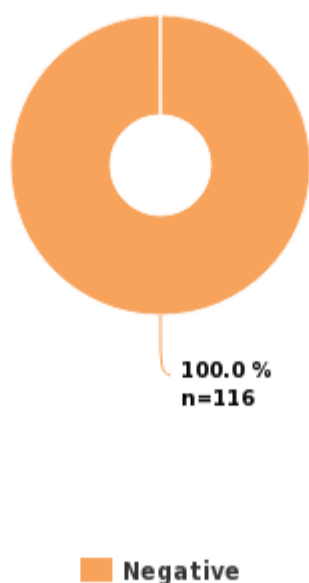
Sample S001 Influenza A virus NAT



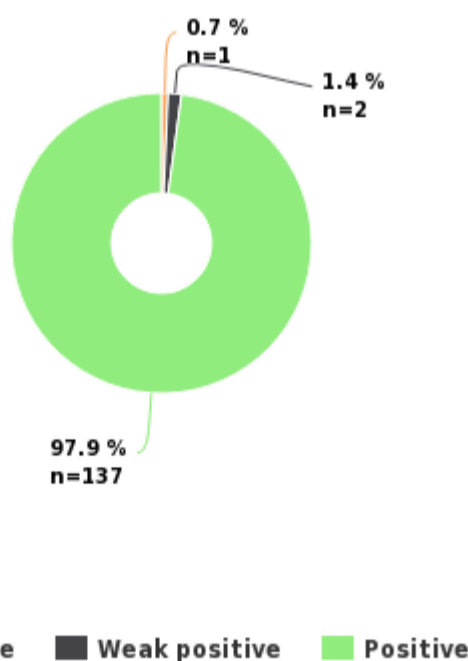
Sample S001 Influenza B virus NAT



Sample S001 RSV NAT



Sample S001 SARS-CoV-2 NAT



Influenza A/B virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		18		100 %	2
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2		
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
	Total:		18		100 %	

Influenza A virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		117		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		4		
		Abbott ID NOW Influenza A & B 2		1		
		AusDiagnostics Respiratory Viruses panel		1		
		BD SARS-CoV-2/Flu for BD MAX System		6		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53		
		Cepheid Xpert Xpress Flu/RSV		2		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4		
		CerTest VIASURE Flu A + Flu B		1		
		CerTest VIASURE Flu A, Flu B & RSV		1		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1		
		EUROIMMUN EUROArray PneuVir		1		
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag RESP-4		2		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		2		
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		4		
		Roche Liat cobas Influenza A/B & RSV		2		
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		3		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8		
	Total:		117		100 %	

Influenza B virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		116		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		4		
		Abbott ID NOW Influenza A & B 2		1		
		AusDiagnostics Respiratory Viruses panel		1		
		BD SARS-CoV-2/Flu for BD MAX System		6		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		

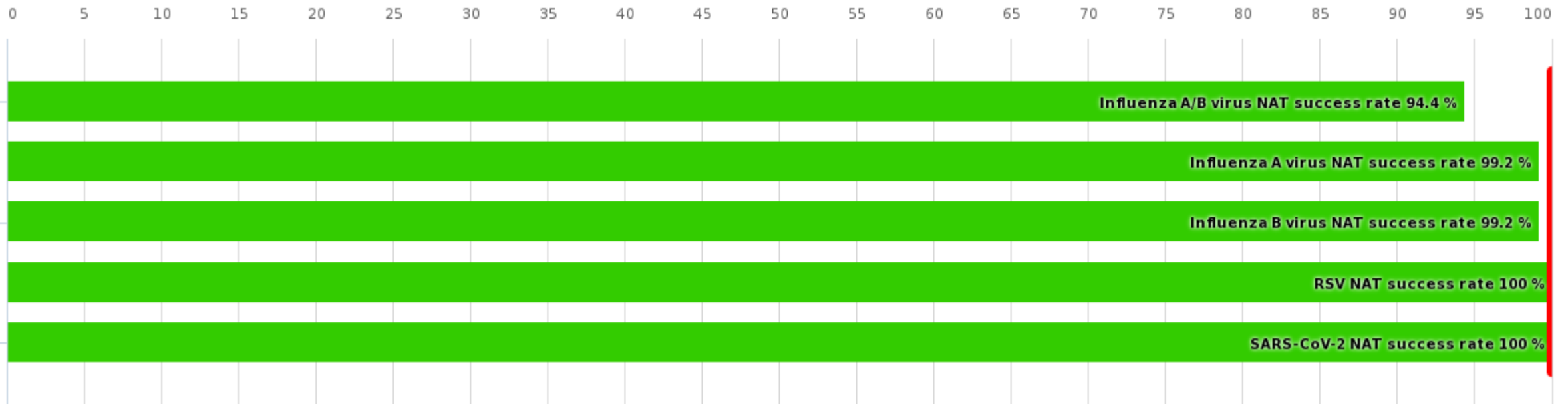
	Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex	1	
	Cepheid Xpert Xpress CoV-2/Flu/RSV plus	54	
	Cepheid Xpert Xpress Flu/RSV	3	
	Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV	2	
	CerTest VIASURE Flu A + Flu B	1	
	CerTest VIASURE Flu A, Flu B & RSV	1	
	CerTest VIASURE SARS-CoV-2, Flu & RSV	1	
	EUROIMMUN EUROArray PneuVir	1	
	Euroimmun EUROrealTime SARS-CoV-2/Influenza A/B	1	
	In-house NAT	1	
	Mobidiag Amplidiag RESP-4	1	
	Mobidiag Novodiag RESP-4	2	
	NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip	2	
	NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR	1	
	PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR	1	
	QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel	3	
	Roche Liat cobas Influenza A/B & RSV	2	
	Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay	7	
	SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2	3	
	Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay	8	
	Total:	116	100 %

RSV NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		116		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		4		
		Abbott ID NOW RSV		1		
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		1		
		AusDiagnostics Respiratory Viruses panel		1		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53		
		Cepheid Xpert Xpress Flu/RSV		1		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		3		
		CerTest VIASURE Flu A, Flu B & RSV		1		
		CerTest VIASURE RSV A+B Real Time PCR Detection Kit		1		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		2		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		EUROIMMUN EUROArray PneuVir		1		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag RESP-4		2		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		2		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		4		
		Roche Liat cobas Influenza A/B & RSV		3		
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		3		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8		

	Total:		116		100 %	
SARS-CoV-2 NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		1		0 %	0
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		1		
	Weak positive		2		100 %	2
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		1		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
	Positive		137		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		4		
		Abbott ID NOW COVID-19 2.0		1		
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2		
		AusDiagnostics Respiratory Viruses panel		1		
		BD SARS-CoV-2/Flu for BD MAX System		6		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2 plus		3		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		50		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		6		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1		
		ELITechGroup SARS-CoV-2 ELITe MGB Kit		1		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		EUROIMMUN EUROArray PneuVir		1		
		EUROIMMUN EURORealTime SARS-CoV-2 Fast		1		
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1		
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		2		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag COVID-19		1		
		Mobidiag Novodiag RESP-4		1		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
		NovaTec Immundiagnostica GSD NovaPrime SARS-CoV-2 (COVID-19) RT-PCR		1		
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		5		
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7		
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4		
		Seegene Allplex SARS-CoV-2 Assay		2		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		7		
		Vitassay qPCR SARS-CoV-2		2		
	Total:		140		99.3 %	

Sample S002 | Influenza B virus

Sample S002 success rate



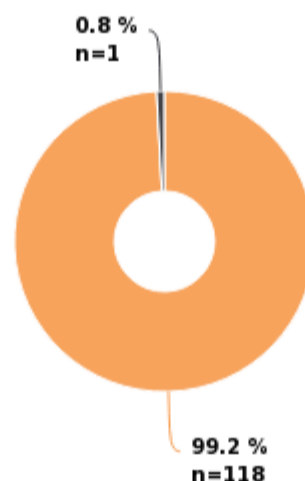
Sample S002 results	Responded	AVR success rate	Count
	Influenza A/B virus NAT	94.4 %	18
	Influenza A virus NAT	99.2 %	119
	Influenza B virus NAT	99.2 %	119
	RSV NAT	100 %	117
	SARS-CoV-2 NAT	100 %	136
	Total:	99.4 %	509

Sample S002 Influenza A/B virus NAT



Legend: Negative (orange), Positive (dark grey)

Sample S002 Influenza A virus NAT



Legend: Negative (orange), Positive (dark grey)

Sample S002 Influenza B virus NAT



Legend: Negative (orange), Positive (dark grey)

Sample S002 RSV NAT



Legend: Negative (orange)

Sample S002 SARS-CoV-2 NAT



Legend: Negative (orange)

Influenza A/B virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		1		0 %	0
		Imogena GeneMAP Respiratory Viral PCR Panel 2		1		
	Positive		17		100 %	2
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		1		
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
	Total:		18		94.4 %	

Influenza A virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		118		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		4		
		Abbott ID NOW Influenza A & B 2		2		
		AusDiagnostics Respiratory Viruses panel		1		
		BD SARS-CoV-2/Flu for BD MAX System		6		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53		
		Cepheid Xpert Xpress Flu/RSV		4		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4		
		CerTest VIASURE Flu A + Flu B		1		
		CerTest VIASURE Flu A, Flu B & RSV		1		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		2		
		EUROIMMUN EUROArray PneuVir		1		
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag RESP-4		1		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx Respiratory Panel V2		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3		
		Roche Liat cobas Influenza A/B & RSV		2		
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		6		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		3		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8		
	Positive		1		0 %	0
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		1		
	Total:		119		99.2 %	

Influenza B virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		1		0 %	0
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		1		
	Positive		118		100 %	2

	Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV	3		
	Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0	1		
	Abbott Alinity m Resp-4-Plex assay	4		
	Abbott ID NOW Influenza A & B 2	2		
	AusDiagnostics Respiratory Viruses panel	1		
	BD SARS-CoV-2/Flu for BD MAX System	6		
	bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel	4		
	Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex	1		
	Cepheid Xpert Xpress CoV-2/Flu/RSV plus	53		
	Cepheid Xpert Xpress Flu/RSV	4		
	Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV	5		
	CerTest VIASURE Flu A + Flu B	1		
	CerTest VIASURE Flu A, Flu B & RSV	1		
	CerTest VIASURE SARS-CoV-2, Flu & RSV	1		
	EUROIMMUN EUROArray PneuVir	1		
	Euroimmun EURORealTime SARS-CoV-2/Influenza A/B	1		
	In-house NAT	1		
	Mobidiag Amplidiag RESP-4	1		
	Mobidiag Novodiag RESP-4	1		
	NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip	1		
	NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR	1		
	PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR	1		
	QIAGEN QIAstat-Dx Respiratory Panel V2	1		
	QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel	3		
	Roche Liat cobas Influenza A/B & RSV	2		
	Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay	6		
	SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2	3		
	Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay	8		
	Total:	119	99.2 %	

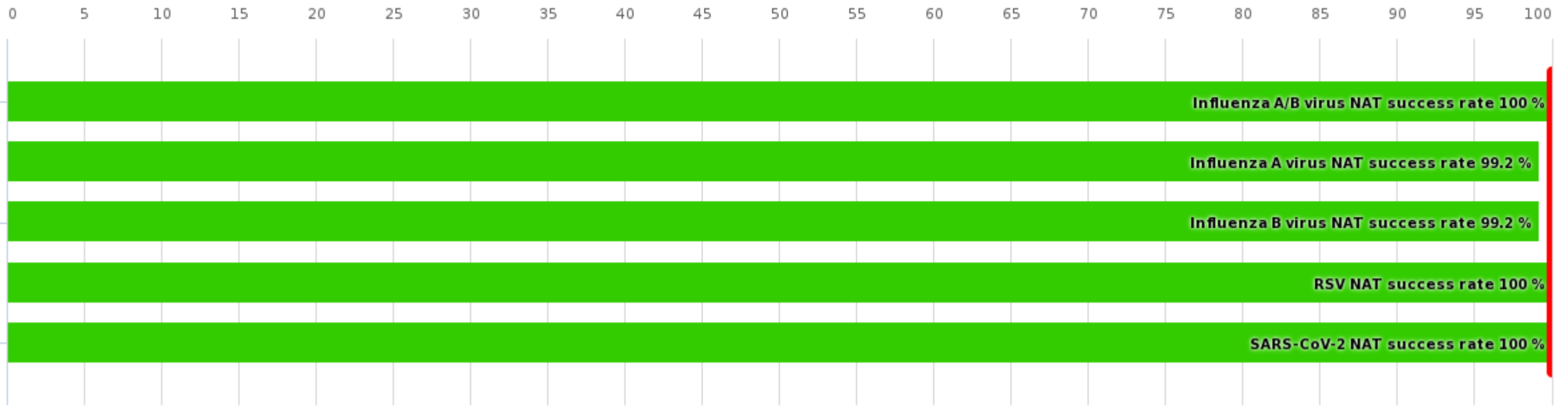
RSV NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		117		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		4		
		Abbott ID NOW RSV		1		
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		1		
		AusDiagnostics Respiratory Viruses panel		1		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53		
		Cepheid Xpert Xpress Flu/RSV		3		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		5		
		CerTest VIASURE Flu A, Flu B & RSV		1		
		CerTest VIASURE RSV A+B Real Time PCR Detection Kit		1		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		EUROIMMUN EUROArray PneuVir		1		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		

	Mobidiag Novodiag RESP-4		1		
	NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
	PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
	QIAGEN QIAstat-Dx Respiratory Panel V2		1		
	QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3		
	Roche Liat cobas Influenza A/B & RSV		3		
	Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
	SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		3		
	Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8		
	Total:		117		100 %

SARS-CoV-2 NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		136		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		4		
		Abbott ID NOW COVID-19 2.0		1		
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2		
		AusDiagnostics Respiratory Viruses panel		1		
		BD SARS-CoV-2 Reagents for BD MAX System		2		
		BD SARS-CoV-2/Flu for BD MAX System		4		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2 plus		3		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		52		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		6		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1		
		ELITechGroup SARS-CoV-2 ELITE MGB Kit		1		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		EUROIMMUN EUROArray PneuVir		1		
		EUROIMMUN EURORealTime SARS-CoV-2 Fast		1		
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1		
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag COVID-19		1		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
		NovaTec Immundiagnostica GSD NovaPrime SARS-CoV-2 (COVID-19) RT-PCR		2		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		4		
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7		
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		7		
		Vitassay qPCR SARS-CoV-2		2		
	Total:		136		100 %	

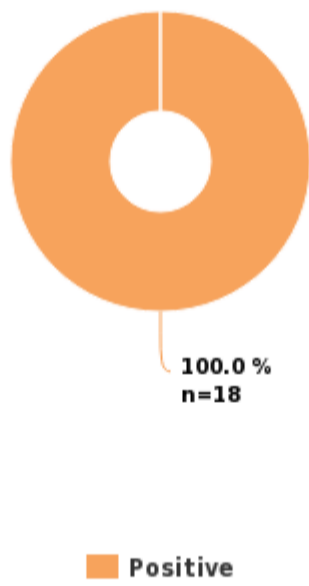
Sample S003 | Influenza A virus

Sample S003 success rate

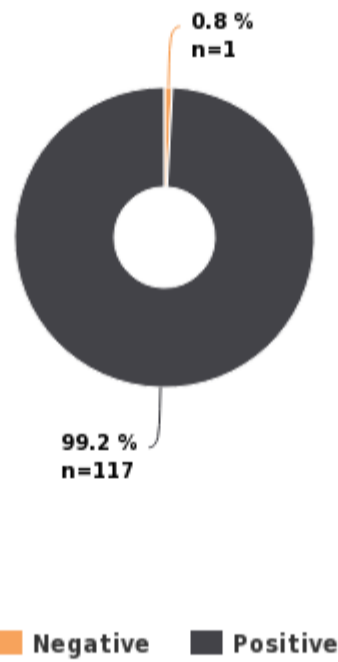


Sample S003 results	Responded	AVR success rate	Count
	Influenza A/B virus NAT	100 %	18
	Influenza A virus NAT	99.2 %	118
	Influenza B virus NAT	99.2 %	118
	RSV NAT	100 %	116
	SARS-CoV-2 NAT	100 %	135
	Total:	99.6 %	505

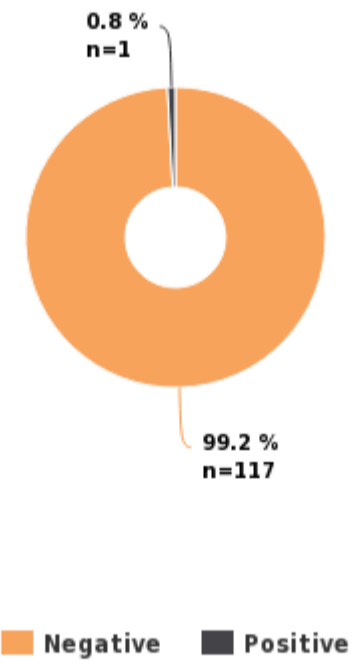
Sample S003 Influenza A/B virus NAT



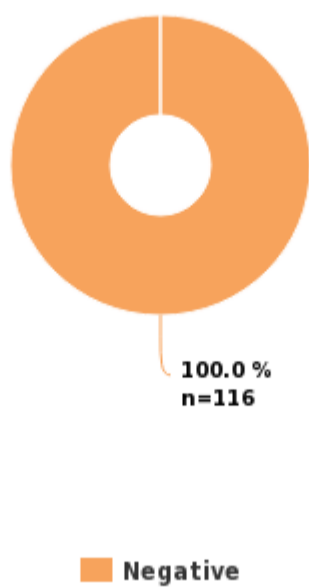
Sample S003 Influenza A virus NAT



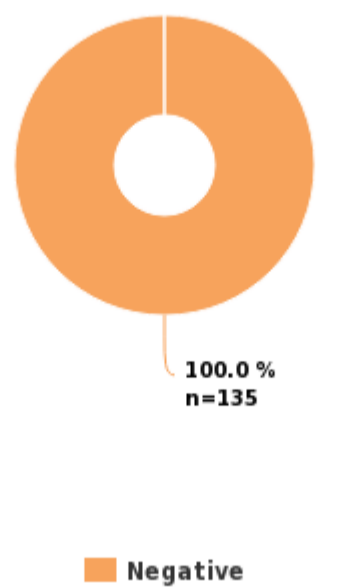
Sample S003 Influenza B virus NAT



Sample S003 RSV NAT



Sample S003 SARS-CoV-2 NAT



Influenza A/B virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Positive		18		100 %	2
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2		
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
	Total:		18		100 %	

Influenza A virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		1		0 %	0
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		1		
	Positive		117		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		3		
		Abbott ID NOW Influenza A & B 2		2		
		BD SARS-CoV-2/Flu for BD MAX System		6		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		55		
		Cepheid Xpert Xpress Flu/RSV		3		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4		
		CerTest VIASURE Flu A + Flu B		1		
		CerTest VIASURE Flu A, Flu B & RSV		1		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1		
		EUROIMMUN EUROArray PneuVir		1		
		Euroimmun EUROrealTime SARS-CoV-2/Influenza A/B		1		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag RESP-4		1		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx Respiratory Panel V2		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3		
		Roche Liat cobas Influenza A/B & RSV		3		
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		5		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8		
	Total:		118		99.2 %	

Influenza B virus NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		117		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		3		
		Abbott ID NOW Influenza A & B 2		2		
		BD SARS-CoV-2/Flu for BD MAX System		6		

		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		55		
		Cepheid Xpert Xpress Flu/RSV		3		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4		
		CerTest VIASURE Flu A + Flu B		1		
		CerTest VIASURE Flu A, Flu B & RSV		1		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1		
		EUROIMMUN EUROArray PneuVir		1		
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag RESP-4		1		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
		NovaTec Immundiagnostica Mplex SARS-CoV-2+, Flu A, Flu B (C1) RT-PCR		1		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx Respiratory Panel V2		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3		
		Roche Liat cobas Influenza A/B & RSV		3		
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		5		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8		
	Positive			1	0 %	0
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		1		
	Total:			118	99.2 %	

RSV NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		116		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		3		
		Abbott ID NOW RSV		1		
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		1		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		55		
		Cepheid Xpert Xpress Flu/RSV		3		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		3		
		CerTest VIASURE Flu A, Flu B & RSV		1		
		CerTest VIASURE RSV A+B Real Time PCR Detection Kit		1		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		1		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		EUROIMMUN EUROArray PneuVir		1		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag RESP-4		1		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx Respiratory Panel V2		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		3		

		Roche Liat cobas Influenza A/B & RSV		3		
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		4		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		8		
	Total:			116		100 %

SARS-CoV-2 NAT	Interpretation	Method	Interpretation count	Method count	AVR success rate	Interpretation Score
	Negative		135		100 %	2
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV		3		
		Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0		1		
		Abbott Alinity m Resp-4-Plex assay		3		
		Abbott ID NOW COVID-19 2.0		1		
		Anatolia Geneworks Bosphore SARS-CoV-2/Flu/ RSV PCR Panel Kit		1		
		Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit		2		
		BD SARS-CoV-2 Reagents for BD MAX System		1		
		BD SARS-CoV-2/Flu for BD MAX System		6		
		bioMerieux BIOFIRE FilmArray Respiratory 2.1 plus Panel		4		
		Biosynex AMPLIQUICK SARS-CoV-2 and Respiratory Triplex		1		
		Cepheid Xpert Xpress CoV-2 plus		2		
		Cepheid Xpert Xpress CoV-2/Flu/RSV plus		53		
		Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV		4		
		CerTest VIASURE SARS-CoV-2, Flu & RSV		2		
		ELITechGroup SARS-CoV-2 ELITE MGB Kit		1		
		Eurobio Scientific EurobioPlex FluCoSyn		9		
		EUROIMMUN EUROArray PneuVir		1		
		EUROIMMUN EURORealTime SARS-CoV-2 Fast		1		
		Euroimmun EURORealTime SARS-CoV-2/Influenza A/B		1		
		ID-Solutions ID SARS-CoV-2 / Influenza Triplex		3		
		Imogena GeneMAP Respiratory Viral PCR Panel 2		2		
		In-house NAT		1		
		Mobidiag Amplidiag RESP-4		1		
		Mobidiag Novodiag COVID-19		1		
		NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip		1		
		NovaTec Immundiagnostica GSD NovaPrime SARS-CoV-2 (COVID-19) RT-PCR		2		
		PerkinElmer PKamp Respiratory SARS-CoV-2 RT-PCR		1		
		QIAGEN QIAstat-Dx SARS-CoV-2/Flu A/B/RSV Panel		4		
		Roche Liat cobas SARS-CoV-2 & Influenza A/B Assay		7		
		Sansure Biotech SARS-CoV-2, Influenza Virus and Respiratory Syncytial Virus Multiple Nucleic Acid Diagnostic Kit		1		
		SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2		5		
		Seegene Allplex SARS-CoV-2 Assay		1		
		Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay		6		
		Vitassay qPCR SARS-CoV-2		2		
	Total:		135		100 %	

Report Info**PARTICIPANTS**

Altogether 105 laboratories from 12 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.

External Quality Assessment Scheme

Multiple respiratory virus, nucleic acid detection Round 1, 2023

Specimens

Samples of this EQA round were simulated nasopharyngeal swab 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 expected results and pre-test laboratory Ct values were as follows:

Sample S001 (LQ776323011)
SARS-CoV-2/B.1.1.529 (Omicron variant) positive, Ct 32.1

Sample S002 (LQ776323012)
Influenza B virus/Hong Kong/5/72 positive, Ct 20.2

Sample S003 (LQ776323013)
Influenza A virus/H1N1 positive, Ct 20.0 (FluA1), 22.7 (FluA2)

Pre-test method: Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV and Seegene Allplex Respiratory Panel 1.

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

105 laboratories had signed up for this year's first multiple respiratory virus round and responses were received from 102 participants. Results had been reported with 33 different tests, which is a very comprehensive number of tests on the market for SARS-CoV-2, influenza viruses and RS virus.

The results were correct for almost all of the participants, only a few differences were reported, and even those may have been recording errors or mixed samples. The round was successful in every way and went brilliantly.

Sample S001 was SARS-CoV-2 positive, and the mean Ct value of the reported Ct values was 30.4 (SD 2.7). One negative SARS-CoV-2 result was reported.

Sample S002 was influenza B virus positive, and the mean Ct value of the reported Ct values was 21.2 (SD 3.1). One negative influenza A/B virus result, one negative influenza B virus result and one positive influenza A virus result was reported from the sample.

Sample S003 was influenza A virus positive, and the mean Ct value of the reported Ct values was 21.3 (SD 3.4). One negative influenza A virus result and one positive influenza B virus result was reported from the sample.

Exceptions in scoring

No exceptions.

2023-03-07

FINAL REPORT

Product no. 5562

Subcontracting: Sample pretesting

Samples sent	2023-01-30
Round closed	2023-02-27
Expected results	2023-02-28
Final report	2023-03-07

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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