

External Quality Assessment Scheme

Syphilis serology Round 1, 2023

Specimens

Please find enclosed 2 human serum samples S001 and S002, each 0.6 mL

Caution

Quality control specimens derived from human blood must be handled with the same care as patient samples, i.e. as potential transmitters of serious diseases. The specimens are found to be HBsAg, HCVAb and HIVAgAb negative when tested with licensed reagents, but no known test method can offer complete assurance that the specimens will not transmit these or other infectious diseases.

Examinations

KardAb
TPHA
TrpaAb
TrpaAbG
TrpaAbM
FTAAbs
FTAIgG
FTAIgM
Clinical interpretation

Storage and use

The specimens should be stored at 2 ... 8 °C and analysed as soon as possible, preferably within a week from sample arrival. Samples are ready to use. Analyse as patient samples.

Result reporting

Please enter the results and methods via LabScala (www.labscala.com). If you cannot find your instrument or reagent from the registry, please contact the EQA Coordinator. All other reported examinations except TrpaAbM and FTAIgM will be scored.

S001:



S002:



2023-02-20

INSTRUCTIONS

Product no. 5880
LQ757823011-012/FI

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

The results should be reported no later than **March 10, 2023.**

The expected results of the round are published in LabScala in the View Reports section by March 14, 2023.

Inquiries

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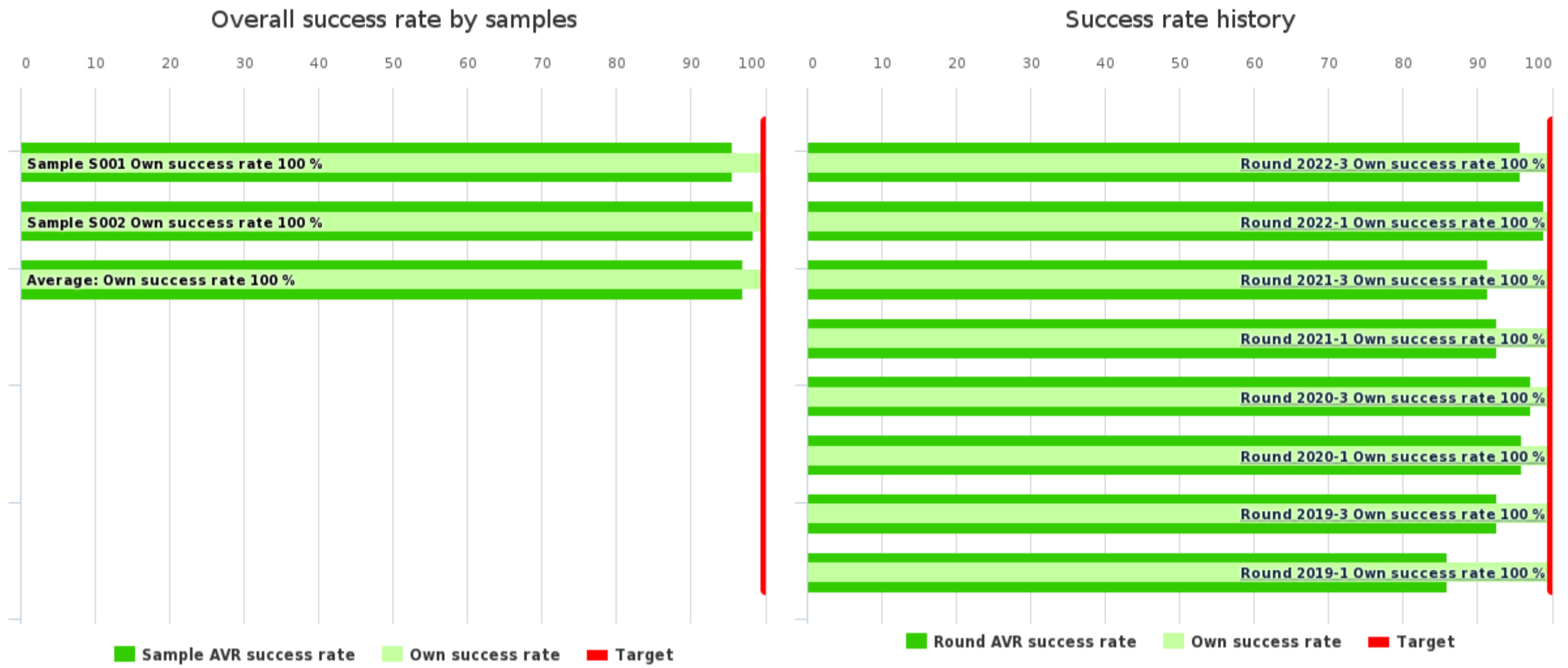
info@labquality.fi
www.labquality.com



Client report

	No of participants	No of responded participants	Response percentage
Syphilis serology, February, 1-2023	150	146	97.3 %

Summary

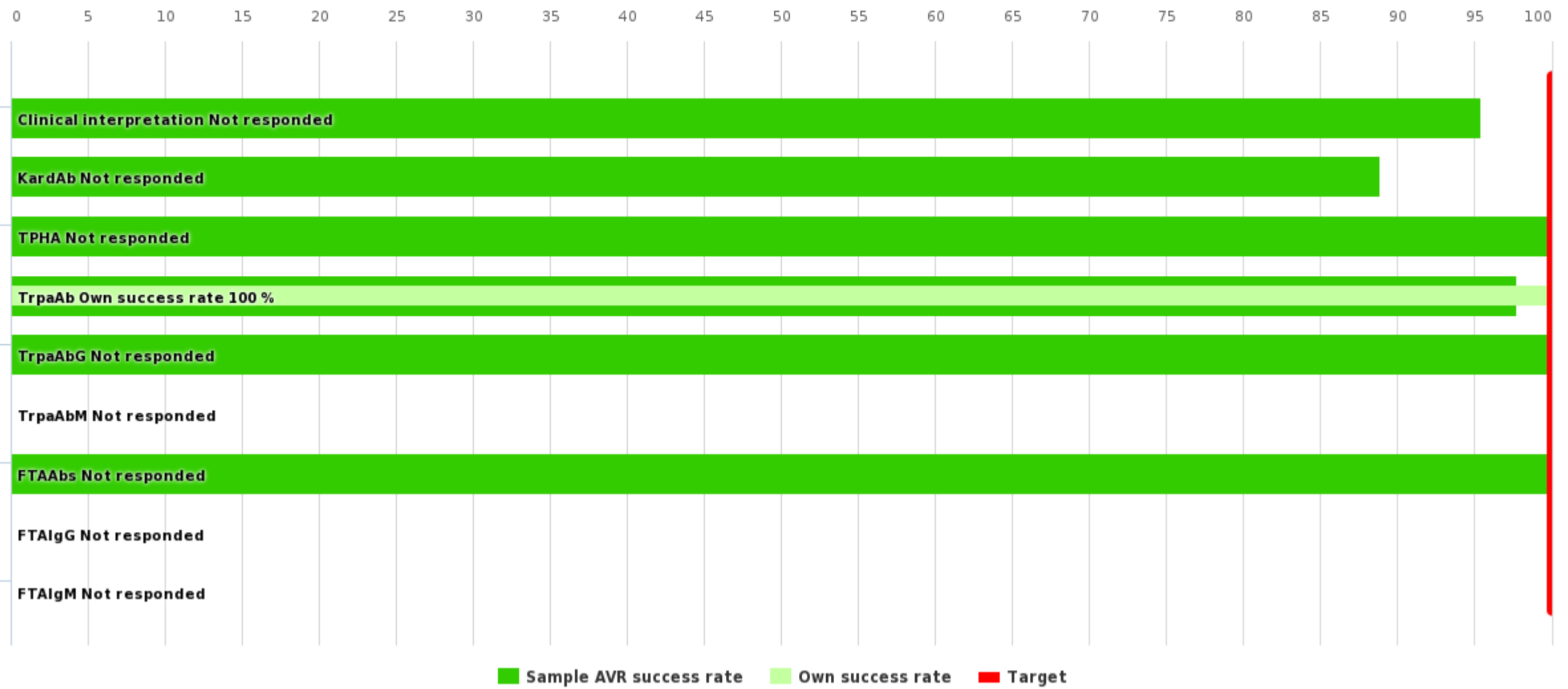


Summary	Own score	Max score	Own success rate	Difference	AVR success rate
Sample S001	2	2	100 %	4.3 %	95.7 %
Sample S002	2	2	100 %	1.6 %	98.4 %
Average:			100 %	3 %	97 %

History	Test nr.	Own success rate	Difference	AVR success rate
Round 2022-3	1-1	100 %	4.2 %	95.8 %
Round 2022-1	1-1	100 %	1.1 %	98.9 %
Round 2021-3	1-1	100 %	8.6 %	91.4 %
Round 2021-1	1-1	100 %	7.3 %	92.7 %
Round 2020-3	1-1	100 %	2.8 %	97.2 %
Round 2020-1	1-1	100 %	4.1 %	95.9 %
Round 2019-3	1-1	100 %	7.4 %	92.6 %
Round 2019-1	1-1	100 %	14 %	86 %

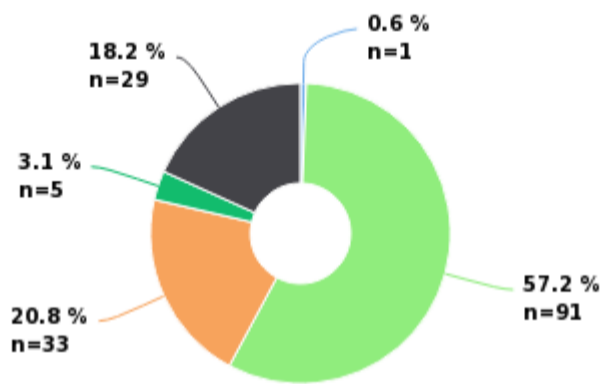
Sample S001

Sample S001 success rate



Sample S001 results	Responded	Own score	Max score	Own success rate	Difference	AVR success rate	Count
	Clinical interpretation	-	-	-	-	95.4 %	159
	KardAb	-	-	-	-	88.9 %	63
	TPHA	-	-	-	-	100 %	33
	TrpaAb	2	2	100 %	2.2 %	97.8 %	134
	TrpaAbG	-	-	-	-	100 %	10
	TrpaAbM	-	-	-	-	-	8
	FTAAb	-	-	-	-	100 %	8
	FTAIgG	-	-	-	-	-	2
	FTAIgM	-	-	-	-	-	1
	Total:	2	2	100 %	4.3 %	95.7 %	418

Sample S001 Clinical interpretation

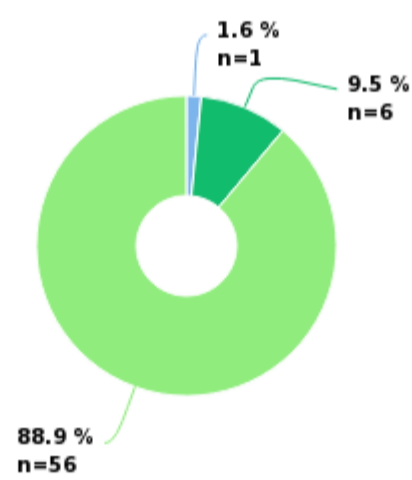


- No infection
- Positive, referred to confirmation test
- Active syphilis / recent infection
- Longstanding infection / serological scar
- Laboratory does not give clinical interpretation

Clinical interpretation	Interpretation	Further action	Interpretation count	Further action count	Own score	Max score	Own success rate	Difference	AVR success rate
	No infection		1		-				0 %
	Positive, referred to confirmation test		91		-				100 %
		Would be referred to another laboratory for further examination		66	-	-			

		New sample requested	33	17	-	-			
	Active syphilis / recent infection		33		-	-			100 %
		New sample requested		3	-	-			
		Would be referred to another laboratory for further examination		4	-	-			
	Longstanding infection / serological scar		5		-	-			0 %
		Would be referred to another laboratory for further examination		1	-	-			
		New sample requested		1	-	-			
	⊙ Laboratory does not give clinical interpretation		29		-	-			-
		New sample requested		4	-	-			
		Would be referred to another laboratory for further examination		9	-	-			
	Total:		159		-	-	-	-	95.4 %

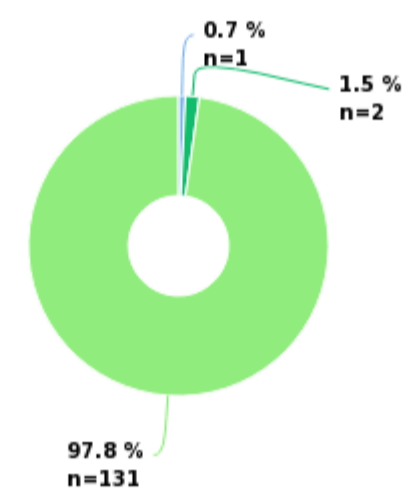
Sample S001 KardAb



Sample S001 TPHA



Sample S001 TrpaAb



■ Negative ■ Weak positive ■ Positive

■ Positive

■ Negative ■ Weak positive ■ Positive

Sample S001 TrpaAbG



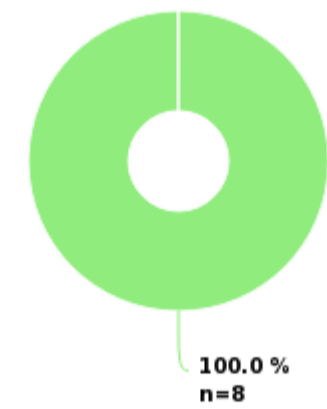
■ Positive

Sample S001 TrpaAbM



■ Negative

Sample S001 FTAAbs



■ Positive

Sample S001 FTAIgG



Sample S001 FTAIgM



Weak positive Positive

Negative

KardAb	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				0 %
		Biosystems RPR-Carbon		1					
	Weak positive		6		-				0 %
		BioMaxima RPR Carbon		1					
		Cypress Diagnostics RPR Carbon		1					
		Hangzhou Alltest Biotech Sensitive One Step Syphilis Rapid test		1					
		Lorne Laboratories RPR Carbon		1					
		Plasmatec RPR		1					
		Stamar RPR Syphilis test		1					
	Positive		56		-				100 %
		ABON Syphilis Rapid Test		1					
		ASI RPR Card Test Syphilis		1					
		Atlas Medical RPR Carbon		1					
		Axis-Shield RPR		3					
		Becton Dickinson Macro-Vue RPR		6					
		Becton Dickinson VDRL		1					
		Bio-Rad RPR		5					
		BioMaxima RPR Carbon		4					
		Biosystems RPR-Carbon		2					
		Cormay RPR Carbon		1					
		Cypress Diagnostics RPR Carbon		1					
		DDS Diagnostic RPR Carbon Kit		1					
		Dialab RPR		5					
		Fortress Diagnostics RPR Carbon Antigen Syphilis		2					
		Human RPR		2					
		Hydrex RPR Carbon		2					
		Lorne Laboratories RPR Carbon		3					
		LTA Syphilis RPR		1					
		Nadal RPR Carbon		1					
		Nadal VDRL haemagglutination test		1					
		Omega Diagnostics Immutrep-RPR		1					
		Plasmatec RPR		5					
		Rapid Labs RPR		1					
		Sekisui Medical Mediace RPR Gen.2		2					
		Spinreact RPR Carbon		1					
		Wiener lab V.D.R.L. test		2					
	Total:		63		-	-	-	-	88.9 %

TPHA	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		33		-				100 %
		Atlas Medical TPHA Kit		2					
		Bio-Rad TPHA		7					
		Biorex Diagnostics TPHA		1					
		Fortress diagnostics TPHA		1					
		Fujirebio SERODIA TP-PA		5					
		Giesse Diagnostics TPHA		3					
		Human Syphilis-TPHA test		1					
		Lorne Laboratories TPHA		3					
		LTA S.r.l. Syphilis TPHA		1					
		nal von Minden Nadal Medical TPHA		3					
		Omega diagnostics Immutrep-TPHA		1					
		Plasmatec TPHA		1					
		Randox syphilis TPHA		1					
		Spinreact TPHA		3					
	Total:		33		-	-	-	-	100 %

OWN DEVICE: HTO

TrpaAb	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				0 %
		Abbott Alinity Syphilis TP		1					
	Weak positive		2		-				0 %
		Hydrex Syphilis test		1					
		Nal von Minden NADAL Syphilis test		1					
	<input checked="" type="radio"/> Positive		131		2	2	100 %	0 %	100 %
		Abbott Alinity Syphilis TP		23					
		<input checked="" type="radio"/> Abbott Architect Syphilis TP		32					
		Abbott/Alere Determine Syphilis TP		1					
		Acro Biotec Acro Syphilis Rapid test		1					
		Bio-Rad ELISA		2					
		Biomaxima Syphilis Cassette		1					
		DiaSorin Liaison Treponema Screen		11					
		Hangzhou Alltest Beright Syphilis Rapid Test Cassette		2					
		Hydrex Syphilis test		6					
		Roche Diagnostics GmbH Syphilis TP Cobas		25					
		Roche Diagnostics GmbH Elecsys Syphilis immunoassay		13					
		Siemens ADVIA Centaur Syphilis assay		2					
		Siemens Atellica Syphilis		7					
		Siemens Immulite 2000 Syphilis screen		3					
		Trinity Biotech Captia Syphilis Total Antibody EIA		1					
		Vedalab SYPH-CHECK-1		1					
	Total:		134		2	2	100 %	2.2 %	97.8 %

TrpaAbG	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		10		-				100 %
		Euroimmun Anti-Treponema pallidum ELISA IgG		1					
		Euroimmun Euroline WB IgG		1					
		Euroimmun Treponema pallidum Westernblot IgG		2					
		Fujirebio Inno-Lia Syphilis score		3					
		Mikrogen recomLine Treponema IgG		2					
		Virotech Treponema pallidum IgG LINE Immunoblot		1					
	Total:		10		-	-	-	-	100 %

TrpaAbM	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		8		-				-
		Euroimmun Anti-Treponema pallidum ELISA IgM		2					
		Euroimmun Treponema pallidum Westernblot IgM		2					
		Mikrogen recomLine Treponema IgM		3					
		Trinity Biotech CAPTIA Syphilis IgM Capture		1					
	Total:		8		-	-	-	-	

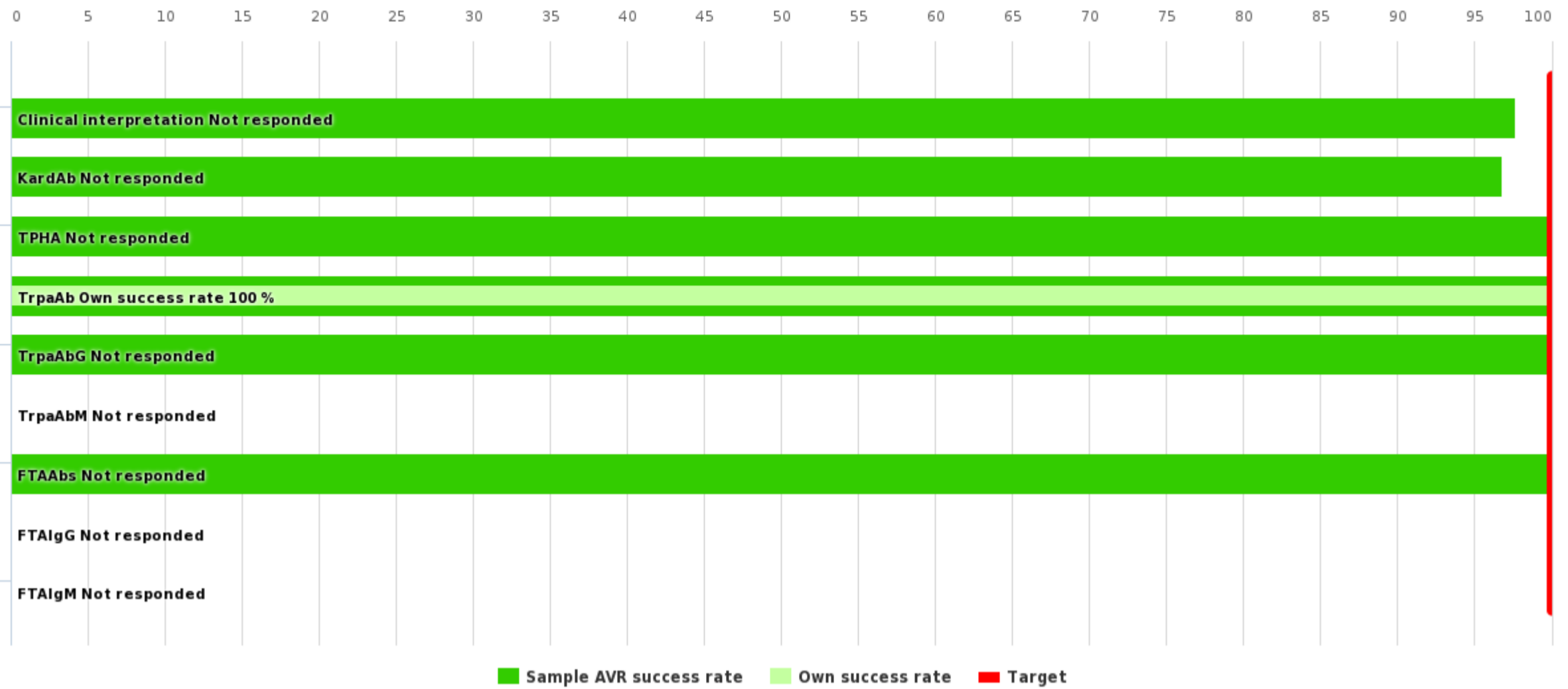
FTAAbS	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		8		-				100 %
		Bialystok FTA		2					
		Bialystok FTA-Abs		4					
		Euroimmun Anti-Treponema pallidum IIFT (IgG or IgM)		1					
		Zeus IFA		1					
	Total:		8		-	-	-	-	100 %

FTAIgG	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Weak positive		1		-				-
		Euroimmun Anti-Treponema pallidum FTA-ABS IIFT IgG		1					
	Positive		1		-				-
		Euroimmun Treponema IFA IgG		1					
	Total:		2		-	-	-	-	

FTAIgM	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				-
		Euroimmun Treponema IFA IgM		1					
	Total:		1		-	-	-	-	

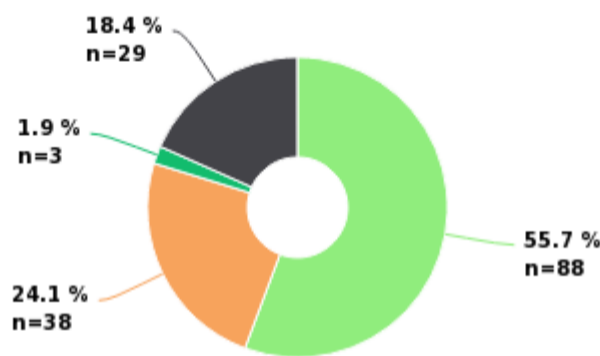
Sample S002

Sample S002 success rate



Sample S002 results	Responded	Own score	Max score	Own success rate	Difference	AVR success rate	Count
	Clinical interpretation	-	-	-	-	97.7 %	158
	KardAb	-	-	-	-	96.8 %	63
	TPHA	-	-	-	-	100 %	33
	TrpaAb	2	2	100 %	0 %	100 %	133
	TrpaAbG	-	-	-	-	100 %	10
	TrpaAbM	-	-	-	-	-	8
	FTAAb	-	-	-	-	100 %	8
	FTAIgG	-	-	-	-	-	2
	FTAIgM	-	-	-	-	-	1
	Total:	2	2	100 %	1.6 %	98.4 %	416

Sample S002 Clinical interpretation

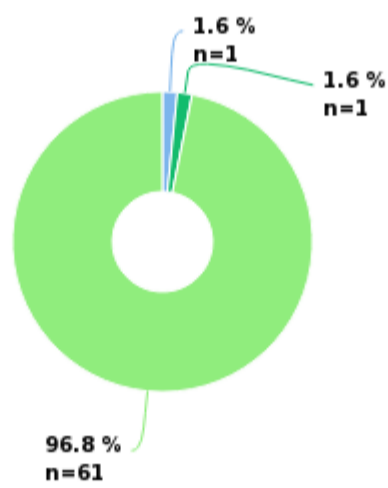


- Positive, referred to confirmation test
- Active syphilis / recent infection
- Longstanding infection / serological scar
- Laboratory does not give clinical interpretation

Clinical interpretation	Interpretation	Further action	Interpretation count	Further action count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive, referred to confirmation test		88		-	-			100 %
		Would be referred to another laboratory for further examination		63	-	-			
		New sample requested		17	-	-			

	Active syphilis / recent infection	38		-				100 %
	New sample requested		4	-	-			
	Would be referred to another laboratory for further examination		7	-	-			
	Longstanding infection / serological scar	3		-				0 %
	<input checked="" type="radio"/> Laboratory does not give clinical interpretation	29		-				-
	New sample requested		3	-	-			
	Would be referred to another laboratory for further examination		9	-	-			
	Total:	158		-	-	-	-	97.7 %

Sample S002 KardAb



Sample S002 TPHA



Sample S002 TrpaAb



■ Negative ■ Weak positive ■ Positive

■ Positive

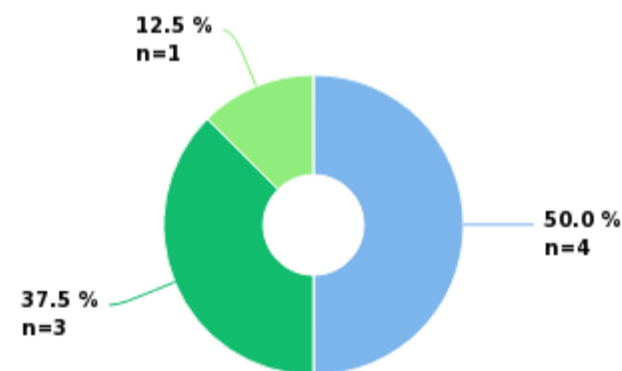
■ Positive

Sample S002 TrpaAbG



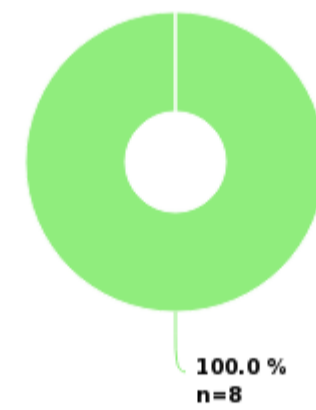
■ Positive

Sample S002 TrpaAbM



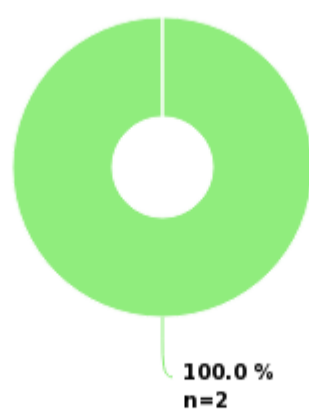
■ Negative ■ Weak positive ■ Positive

Sample S002 FTAAbs



■ Positive

Sample S002 FTAIgG



■ Positive

Sample S002 FTAIgM



■ Positive

KardAb	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		1		-				0 %
		Biosystems RPR-Carbon		1					
	Weak positive		1		-				0 %
		Plasmatec RPR		1					
	Positive		61		-				100 %
		ABON Syphilis Rapid Test		1					
		ASI RPR Card Test Syphilis		1					
		Atlas Medical RPR Carbon		1					
		Axis-Shield RPR		3					
		Becton Dickinson Macro-Vue RPR		6					
		Becton Dickinson VDRL		1					
		Bio-Rad RPR		5					
		BioMaxima RPR Carbon		5					
		Biosystems RPR-Carbon		2					
		Cormay RPR Carbon		1					
		Cypress Diagnostics RPR Carbon		2					
		DDS Diagnostic RPR Carbon Kit		1					
		Dialab RPR		5					
		Fortress Diagnostics RPR Carbon Antigen Syphilis		2					
		Hangzhou Alltest Biotech Sensitive One Step Syphilis Rapid test		1					
		Human RPR		2					
		Hydrex RPR Carbon		2					
		Lorne Laboratories RPR Carbon		4					
		LTA Syphilis RPR		1					
		Nadal RPR Carbon		1					
		Nadal VDRL haemagglutination test		1					
		Omega Diagnostics Immutrep-RPR		1					
		Plasmatec RPR		5					
		Rapid Labs RPR		1					
		Sekisui Medical Mediace RPR Gen.2		2					
		Spinreact RPR Carbon		1					
		Stamar RPR Syphilis test		1					
		Wiener lab V.D.R.L. test		2					
	Total:		63		-	-	-	-	96.8 %

TPHA	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		33		-				100 %
		Atlas Medical TPHA Kit		2					
		Bio-Rad TPHA		7					
		Biorex Diagnostics TPHA		1					
		Fortress diagnostics TPHA		1					
		Fujirebio SERODIA TP-PA		5					
		Giese Diagnostics TPHA		3					
		Human Syphilis-TPHA test		1					
		Lorne Laboratories TPHA		3					
		LTA S.r.l. Syphilis TPHA		1					
		nal von Minden Nadal Medical TPHA		3					
		Omega diagnostics Immutrep-TPHA		1					
		Plasmatec TPHA		1					
		Randox syphilis TPHA		1					
		Spinreact TPHA		3					
	Total:		33		-	-	-	-	100 %

OWN DEVICE: HTO

TrpaAb	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	<input checked="" type="radio"/> Positive		133		2	2	100 %	0 %	100 %
		Abbott Alinity Syphilis TP		23					
		<input checked="" type="radio"/> Abbott Architect Syphilis TP		32					

	Abbott/Alere Determine Syphilis TP	1						
	Acro Biotec Acro Syphilis Rapid test	1						
	Bio-Rad ELISA	2						
	Biomaxima Syphilis Cassette	1						
	DiaSorin Liaison Treponema Screen	11						
	Hangzhou Alltest Beright Syphilis Rapid Test Cassette	2						
	Hydrex Syphilis test	7						
	Nal von Minden NADAL Syphilis test	1						
	Roche Diagnostics GmbH Syphilis TP Cobas	25						
	Roche Diagnostics GmbH Elecsys Syphilis immunoassay	13						
	Siemens ADVIA Centaur Syphilis assay	2						
	Siemens Atellica Syphilis	7						
	Siemens Immulite 2000 Syphilis screen	3						
	Trinity Biotech Captia Syphilis Total Antibody EIA	1						
	Vedalab SYPH-CHECK-1	1						
	Total:	133		2	2	100 %	0 %	100 %

TrpaAbG	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		10		-				100 %
		Euroimmun Anti-Treponema pallidum ELISA IgG		1					
		Euroimmun Euroline WB IgG		1					
		Euroimmun Treponema pallidum Westernblot IgG		2					
		Fujirebio Inno-Lia Syphilis score		3					
		Mikrogen recomLine Treponema IgG		2					
		Virotech Treponema pallidum IgG LINE Immunoblot		1					
	Total:		10		-	-	-	-	100 %

TrpaAbM	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Negative		4		-				-
		Euroimmun Anti-Treponema pallidum ELISA IgM		1					
		Euroimmun Treponema pallidum Westernblot IgM		1					
		Mikrogen recomLine Treponema IgM		1					
		Trinity Biotech CAPTIA Syphilis IgM Capture		1					
	Weak positive		3		-				-
		Euroimmun Anti-Treponema pallidum ELISA IgM		1					
		Euroimmun Treponema pallidum Westernblot IgM		1					
		Mikrogen recomLine Treponema IgM		1					
	Positive		1		-				-
		Mikrogen recomLine Treponema IgM		1					
	Total:		8		-	-	-	-	

FTAAbs	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		8		-				100 %
		Bialystok FTA		3					
		Bialystok FTA-Abs		3					
		Euroimmun Anti-Treponema pallidum IIFT (IgG or IgM)		1					
		Zeus IFA		1					
	Total:		8		-	-	-	-	100 %

FTAIgG	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		2		-				-

		Euroimmun Anti-Treponema pallidum FTA-ABS IIFT IgG		1					
		Euroimmun Treponema IFA IgG		1					
	Total:		2		-	-	-	-	

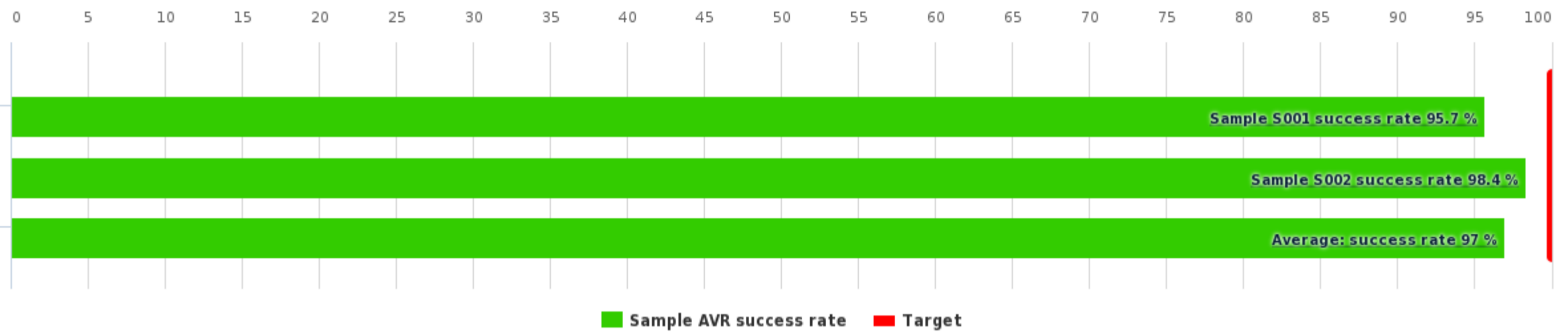
FTAIgM	Interpretation	Test kit	Interpretation count	Test kit count	Own score	Max score	Own success rate	Difference	AVR success rate
	Positive		1		-				-
		Euroimmun Treponema IFA IgM		1					
	Total:		1		-	-	-	-	

GLOBAL REPORT

	No of participants	No of responded participants	Response percentage
Syphilis serology, February, 1-2023	150	146	97.3 %

Summary

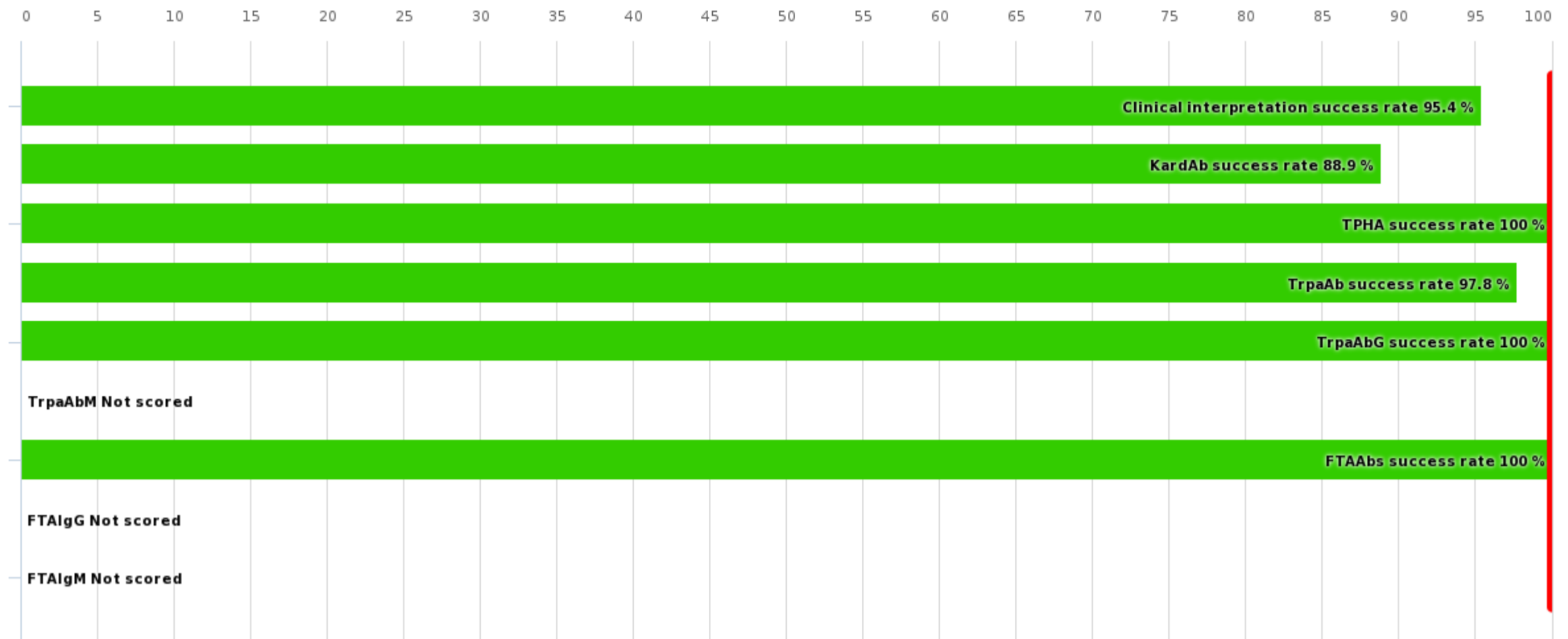
Overall success rate by samples



Summary	AVR success rate
Sample S001	95.7 %
Sample S002	98.4 %
Average:	97 %

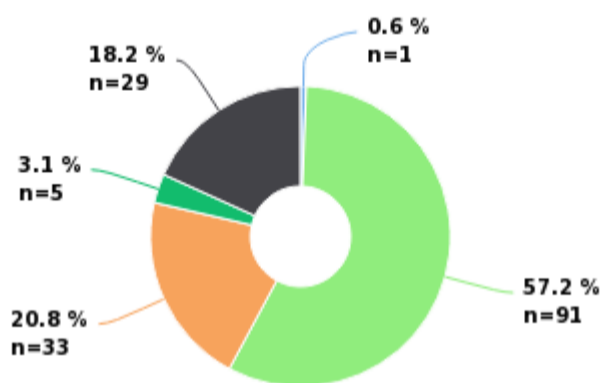
Sample S001

Sample S001 success rate



Sample S001 results	Responded	AVR success rate	Count
	Clinical interpretation	95.4 %	159
	KardAb	88.9 %	63
	TPHA	100 %	33
	TrpaAb	97.8 %	134
	TrpaAbG	100 %	10
	TrpaAbM	-	8
	FTAAbs	100 %	8
	FTAIgG	-	2
	FTAIgM	-	1
	Total:	95.7 %	418

Sample S001 Clinical interpretation

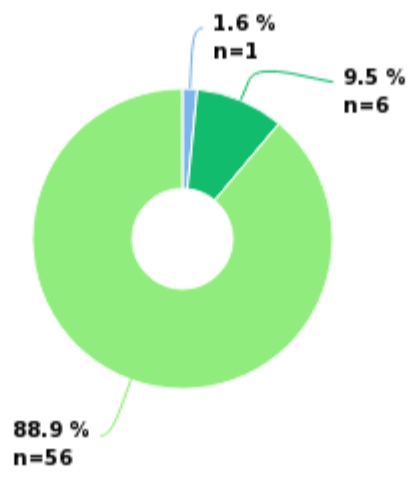


- No infection
- Positive, referred to confirmation test
- Active syphilis / recent infection
- Longstanding infection / serological scar
- Laboratory does not give clinical interpretation

Clinical interpretation	Interpretation	Further action	Interpretation count	Further action count	AVR success rate	Interpretation Score
	No infection		1		0 %	0
	Positive, referred to confirmation test		91		100 %	4
		Would be referred to another laboratory for further examination		66		
		New sample requested		17		

	Active syphilis / recent infection		33		100 %	4
		New sample requested		3		
		Would be referred to another laboratory for further examination		4		
	Longstanding infection / serological scar		5		0 %	0
		Would be referred to another laboratory for further examination		1		
		New sample requested		1		
	Laboratory does not give clinical interpretation		29		-	-
		New sample requested		4		
		Would be referred to another laboratory for further examination		9		
	Total:		159		95.4 %	

Sample S001 KardAb



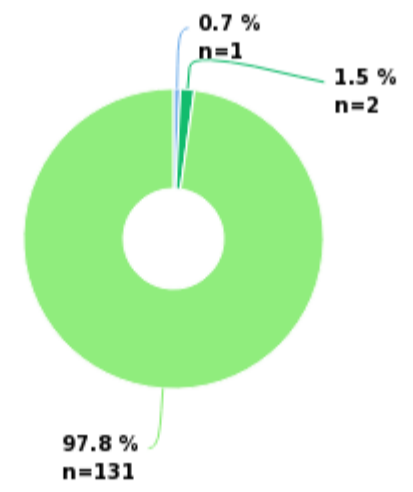
■ Negative ■ Weak positive ■ Positive

Sample S001 TPHA



■ Positive

Sample S001 TrpaAb



■ Negative ■ Weak positive ■ Positive

Sample S001 TrpaAbG



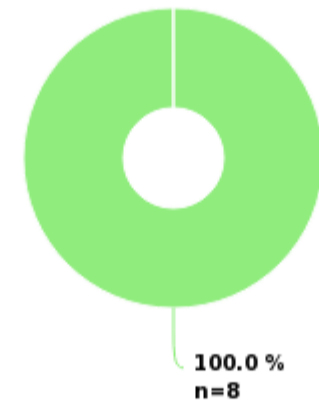
■ Positive

Sample S001 TrpaAbM



■ Negative

Sample S001 FTAAbs



■ Positive

Sample S001 FTAIgG



■ Weak positive ■ Positive

Sample S001 FTAIgM



■ Negative

■ weak positive ■ positive

■ negative

KardAb	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Negative		1		0 %	0
		Biosystems RPR-Carbon		1		
	Weak positive		6		0 %	0
		BioMaxima RPR Carbon		1		
		Cypress Diagnostics RPR Carbon		1		
		Hangzhou Alltest Biotech Sensitive One Step Syphilis Rapid test		1		
		Lorne Laboratories RPR Carbon		1		
		Plasmatec RPR		1		
		Stamar RPR Syphilis test		1		
	Positive		56		100 %	2
		ABON Syphilis Rapid Test		1		
		ASI RPR Card Test Syphilis		1		
		Atlas Medical RPR Carbon		1		
		Axis-Shield RPR		3		
		Becton Dickinson Macro-Vue RPR		6		
		Becton Dickinson VDRL		1		
		Bio-Rad RPR		5		
		BioMaxima RPR Carbon		4		
		Biosystems RPR-Carbon		2		
		Cormay RPR Carbon		1		
		Cypress Diagnostics RPR Carbon		1		
		DDS Diagnostic RPR Carbon Kit		1		
		Dialab RPR		5		
		Fortress Diagnostics RPR Carbon Antigen Syphilis		2		
		Human RPR		2		
		Hydrex RPR Carbon		2		
		Lorne Laboratories RPR Carbon		3		
		LTA Syphilis RPR		1		
		Nadal RPR Carbon		1		
		Nadal VDRL haemagglutination test		1		
		Omega Diagnostics Immutrep-RPR		1		
		Plasmatec RPR		5		
		Rapid Labs RPR		1		
		Sekisui Medical Mediace RPR Gen.2		2		
		Spinreact RPR Carbon		1		
		Wiener lab V.D.R.L. test		2		
	Total:		63		88.9 %	

TPHA	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		33		100 %	2
		Atlas Medical TPHA Kit		2		
		Bio-Rad TPHA		7		
		Biorex Diagnostics TPHA		1		
		Fortress diagnostics TPHA		1		
		Fujirebio SERODIA TP-PA		5		
		Giese Diagnostics TPHA		3		
		Human Syphilis-TPHA test		1		
		Lorne Laboratories TPHA		3		
		LTA S.r.l. Syphilis TPHA		1		
		nal von Minden Nadal Medical TPHA		3		
		Omega diagnostics Immutrep-TPHA		1		
		Plasmatec TPHA		1		
		Randox syphilis TPHA		1		
		Spinreact TPHA		3		
	Total:		33		100 %	

TrpaAb	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Negative		1		0 %	0

		Abbott Alinity Syphilis TP		1		
	Weak positive		2		0 %	0
		Hydrex Syphilis test		1		
		Nal von Minden NADAL Syphilis test		1		
	Positive		131		100 %	2
		Abbott Alinity Syphilis TP		23		
		Abbott Architect Syphilis TP		32		
		Abbott/Alere Determine Syphilis TP		1		
		Acro Biotec Acro Syphilis Rapid test		1		
		Bio-Rad ELISA		2		
		Biomaxima Syphilis Cassette		1		
		DiaSorin Liaison Treponema Screen		11		
		Hangzhou Alltest Beright Syphilis Rapid Test Cassette		2		
		Hydrex Syphilis test		6		
		Roche Diagnostics GmbH Syphilis TP Cobas		25		
		Roche Diagnostics GmbH Elecsys Syphilis immunoassay		13		
		Siemens ADVIA Centaur Syphilis assay		2		
		Siemens Atellica Syphilis		7		
		Siemens Immulite 2000 Syphilis screen		3		
		Trinity Biotech Captia Syphilis Total Antibody EIA		1		
		Vedalab SYPH-CHECK-1		1		
	Total:		134		97.8 %	

TrpaAbG	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		10		100 %	2
		Euroimmun Anti-Treponema pallidum ELISA IgG		1		
		Euroimmun Euroline WB IgG		1		
		Euroimmun Treponema pallidum Westernblot IgG		2		
		Fujirebio Inno-Lia Syphilis score		3		
		Mikrogen recomLine Treponema IgG		2		
		Virotech Treponema pallidum IgG LINE Immunoblot		1		
	Total:		10		100 %	

TrpaAbM	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Negative		8		-	-
		Euroimmun Anti-Treponema pallidum ELISA IgM		2		
		Euroimmun Treponema pallidum Westernblot IgM		2		
		Mikrogen recomLine Treponema IgM		3		
		Trinity Biotech CAPTIA Syphilis IgM Capture		1		
	Total:		8			

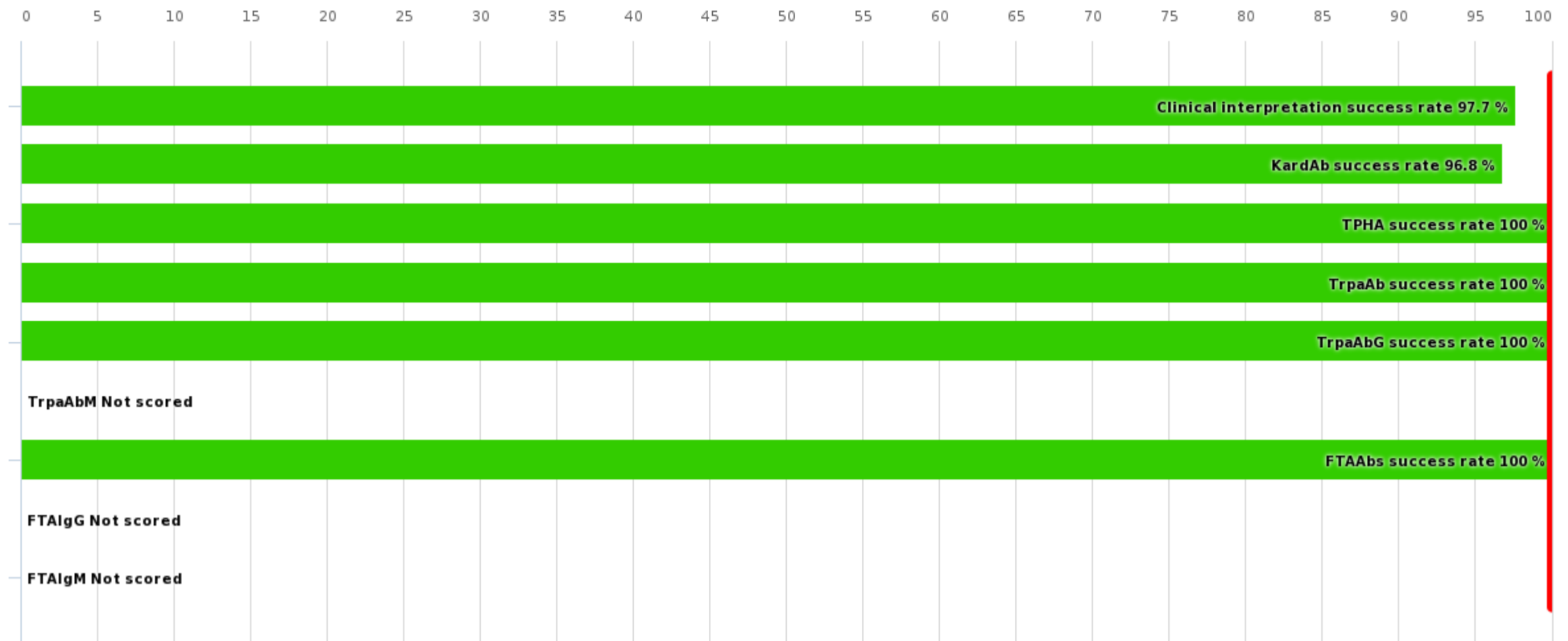
FTAAbs	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		8		100 %	2
		Bialystok FTA		2		
		Bialystok FTA-Abs		4		
		Euroimmun Anti-Treponema pallidum IIFT (IgG or IgM)		1		
		Zeus IFA		1		
	Total:		8		100 %	

FTAIgG	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Weak positive		1		-	-
		Euroimmun Anti-Treponema pallidum FTA-ABS IIFT IgG		1		
	Positive		1		-	-
		Euroimmun Treponema IFA IgG		1		
	Total:		2			

FTAIgM	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Negative		1		-	-
		Euroimmun Treponema IFA IgM		1		
	Total:		1			

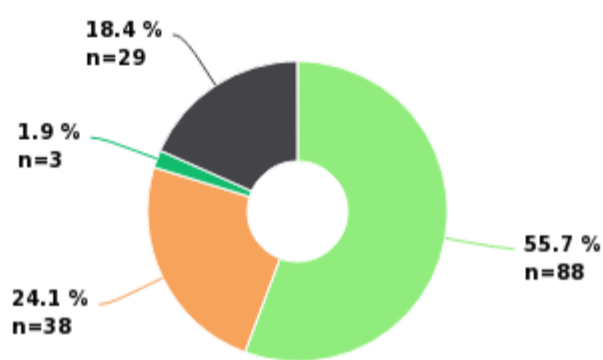
Sample S002

Sample S002 success rate



Sample S002 results	Responded	AVR success rate	Count
	Clinical interpretation	97.7 %	158
	KardAb	96.8 %	63
	TPHA	100 %	33
	TrpaAb	100 %	133
	TrpaAbG	100 %	10
	TrpaAbM	-	8
	FTAAbs	100 %	8
	FTAIgG	-	2
	FTAIgM	-	1
	Total:	98.4 %	416

Sample S002 Clinical interpretation

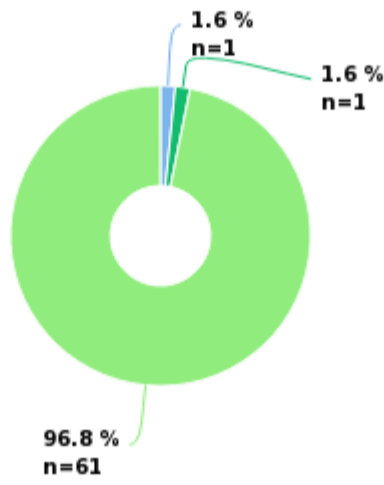


- Positive, referred to confirmation test
- Active syphilis / recent infection
- Longstanding infection / serological scar
- Laboratory does not give clinical interpretation

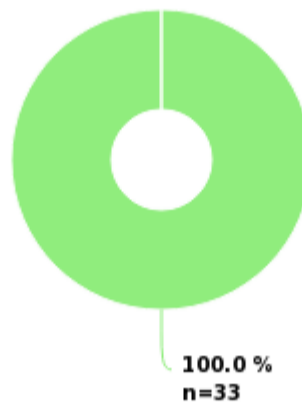
Clinical interpretation	Interpretation	Further action	Interpretation count	Further action count	AVR success rate	Interpretation Score
	Positive, referred to confirmation test		88		100 %	4
		Would be referred to another laboratory for further examination		63		
		New sample requested		17		
	Active syphilis / recent infection		38		100 %	4

		New sample requested		4		
		Would be referred to another laboratory for further examination		7		
	Longstanding infection / serological scar		3		0 %	0
	Laboratory does not give clinical interpretation		29		-	-
		New sample requested		3		
		Would be referred to another laboratory for further examination		9		
	Total:		158		97.7 %	

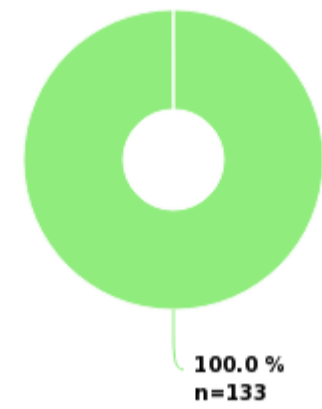
Sample S002 KardAb



Sample S002 TPHA



Sample S002 TrpaAb

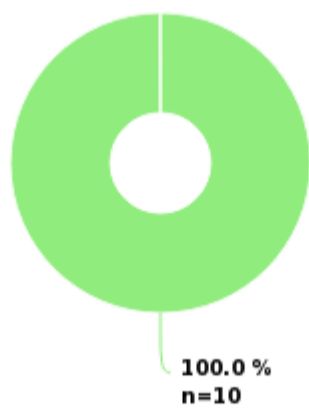


■ Negative ■ Weak positive ■ Positive

■ Positive

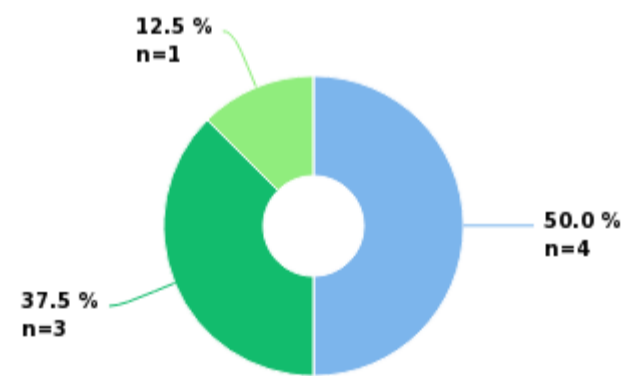
■ Positive

Sample S002 TrpaAbG



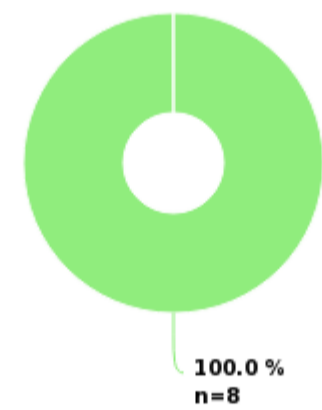
■ Positive

Sample S002 TrpaAbM



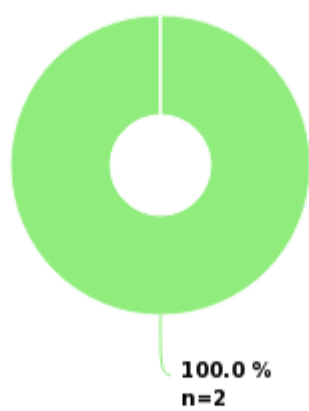
■ Negative ■ Weak positive ■ Positive

Sample S002 FTAAbs



■ Positive

Sample S002 FTAlgG



■ Positive

Sample S002 FTAlgM



■ Positive

KardAb	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Negative		1		0 %	0
		Biosystems RPR-Carbon		1		
	Weak positive		1		0 %	0
		Plasmatec RPR		1		
	Positive		61		100 %	2
		ABON Syphilis Rapid Test		1		
		ASI RPR Card Test Syphilis		1		
		Atlas Medical RPR Carbon		1		
		Axis-Shield RPR		3		
		Becton Dickinson Macro-Vue RPR		6		
		Becton Dickinson VDRL		1		
		Bio-Rad RPR		5		
		BioMaxima RPR Carbon		5		
		Biosystems RPR-Carbon		2		
		Cormay RPR Carbon		1		
		Cypress Diagnostics RPR Carbon		2		
		DDS Diagnostic RPR Carbon Kit		1		
		Dialab RPR		5		
		Fortress Diagnostics RPR Carbon Antigen Syphilis		2		
		Hangzhou Alltest Biotech Sensitive One Step Syphilis Rapid test		1		
		Human RPR		2		
		Hydrex RPR Carbon		2		
		Lorne Laboratories RPR Carbon		4		
		LTA Syphilis RPR		1		
		Nadal RPR Carbon		1		
		Nadal VDRL haemagglutination test		1		
		Omega Diagnostics Immutrep-RPR		1		
		Plasmatec RPR		5		
		Rapid Labs RPR		1		
		Sekisui Medical Mediace RPR Gen.2		2		
		Spinreact RPR Carbon		1		
		Stamar RPR Syphilis test		1		
		Wiener lab V.D.R.L. test		2		
	Total:		63		96.8 %	

TPHA	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		33		100 %	2
		Atlas Medical TPHA Kit		2		
		Bio-Rad TPHA		7		
		Biorex Diagnostics TPHA		1		
		Fortress diagnostics TPHA		1		
		Fujirebio SERODIA TP-PA		5		
		Giese Diagnostics TPHA		3		
		Human Syphilis-TPHA test		1		
		Lorne Laboratories TPHA		3		
		LTA S.r.l. Syphilis TPHA		1		
		nal von Minden Nadal Medical TPHA		3		
		Omega diagnostics Immutrep-TPHA		1		
		Plasmatec TPHA		1		
		Randox syphilis TPHA		1		
		Spinreact TPHA		3		
	Total:		33		100 %	

TrpaAb	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		133		100 %	2
		Abbott Alinity Syphilis TP		23		
		Abbott Architect Syphilis TP		32		
		Abbott/Alere Determine Syphilis TP		1		
		Acro Biotec Acro Syphilis Rapid test		1		
		Bio-Rad ELISA		2		
		Biomaxima Syphilis Cassette		1		

		DiaSorin Liaison Treponema Screen		11		
		Hangzhou Alltest Beright Syphilis Rapid Test Cassette		2		
		Hydrex Syphilis test		7		
		Nal von Minden NADAL Syphilis test		1		
		Roche Diagnostics GmbH Syphilis TP Cobas		25		
		Roche Diagnostics GmbH Elecsys Syphilis immunoassay		13		
		Siemens ADVIA Centaur Syphilis assay		2		
		Siemens Atellica Syphilis		7		
		Siemens Immulite 2000 Syphilis screen		3		
		Trinity Biotech Captia Syphilis Total Antibody EIA		1		
		Vedalab SYPH-CHECK-1		1		
	Total:			133		100 %

TrpaAbG	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		10		100 %	2
		Euroimmun Anti-Treponema pallidum ELISA IgG		1		
		Euroimmun Euroline WB IgG		1		
		Euroimmun Treponema pallidum Westernblot IgG		2		
		Fujirebio Inno-Lia Syphilis score		3		
		Mikrogen recomLine Treponema IgG		2		
		Virotech Treponema pallidum IgG LINE Immunoblot		1		
	Total:		10		100 %	

TrpaAbM	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Negative		4		-	-
		Euroimmun Anti-Treponema pallidum ELISA IgM		1		
		Euroimmun Treponema pallidum Westernblot IgM		1		
		Mikrogen recomLine Treponema IgM		1		
		Trinity Biotech CAPTIA Syphilis IgM Capture		1		
	Weak positive		3		-	-
		Euroimmun Anti-Treponema pallidum ELISA IgM		1		
		Euroimmun Treponema pallidum Westernblot IgM		1		
		Mikrogen recomLine Treponema IgM		1		
	Positive		1		-	-
		Mikrogen recomLine Treponema IgM		1		
	Total:		8			

FTAAbs	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		8		100 %	2
		Bialystok FTA		3		
		Bialystok FTA-Abs		3		
		Euroimmun Anti-Treponema pallidum IIFT (IgG or IgM)		1		
		Zeus IFA		1		
	Total:		8		100 %	

FTAIgG	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		2		-	-
		Euroimmun Anti-Treponema pallidum FTA-ABS IIFT IgG		1		
		Euroimmun Treponema IFA IgG		1		
	Total:		2			

FTAIgM	Interpretation	Test kit	Interpretation count	Test kit count	AVR success rate	Interpretation Score
	Positive		1		-	-
		Euroimmun Treponema IFA IgM		1		
	Total:		1			

External Quality Assessment Scheme

Syphilis serology Round 1, 2023

Specimens

In this round, there were two authentic serum samples, each originating from a single human donor. The homogeneity of samples was ensured during the sample preparation. The antibodies are known to be stable and there are no special requirements for their handling or storage. The samples were suitable for the external quality assessment scheme. The materials were sent without temperature control packaging.

The accepted results were as follows:

Sample S001 (LQ757823011)

KardAb	Positive
TPHA	Positive
TrpaAb	Positive
TrpaAbG	Positive
TrpaAbM	Not scored
FTAAbs	Positive
FTAIgG	Not scored (reported less than 3 results)
FTAIgM	Not scored
Clinical interpretation	Longstanding infection/serological scar Positive, referred for confirmation test

Sample S002 (LQ757823012)

KardAb	Positive
TPHA	Positive
TrpaAb	Positive
TrpaAbG	Positive
TrpaAbM	Not scored
FTAAbs	Positive
FTAIgG	Not scored (reported less than 3 results)
FTAIgM	Not scored
Clinical interpretation	Active syphilis/recent infection Positive, referred for confirmation test

Report info

It is important to read the Final report first, because it contains important information of the samples and results in each round. 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.

2023-06-29

FINAL REPORT

Product no. 5880

Subcontracting: Sample pretesting

Samples sent	2023-02-20
Round closed	2023-03-10
Final report	2023-06-29

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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Scoring

The round is scored based on test results and clinical interpretations 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
- Correct/expected clinical interpretation 4/4 points
- False/deviating clinical interpretation 0/4 points

Please note. Analytes TrpaAbM and FTAlgM are not scored in this product (5880 Syphilis serology).

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.

Exceptions in scoring

Analyte FTAlgG is not scored because less than 3 results were reported at this round 1, 2023.

Comments - Expert

S001 had positive antibody titer in non-treponemal and treponemal test (representing an active syphilis infection). Negative and weakly positive results were considered false in these tests. 89 % of non-treponemal and 98 % of treponemal test results were correct.

S002 had positive antibody titer in non-treponemal and treponemal test (representing an active syphilis infection). Negative and weakly positive results were considered false in these tests. 97 % of non-treponemal and 100 % of treponemal test results were correct.

End of report

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