

Final report PT-06: Tx 1/2025

PT-06: “Detection of anti-Toxoplasma IgG in animal serum samples”

Design

Purpose	Evaluation of laboratories competence in detection anti Toxoplasma IgG in animal serum	
Scheme type	Single, simultaneous	
Participants	National reference laboratories for parasites. Public and private laboratories	
N. of participants	Depending on request	
Method	not regulated	
Test method	chosen by the participant	
PT items	Matrix	serum
	Item	IgG
	N. of samples	3 for each participant
	Distribution	Immediate shipment after preparation
Subcontracted activities	NA	
Results evaluation	Qualitative	

Implementation

N. of participants	16	PT items	Serum samples	3
Public laboratories	16		PT panel composition	2 positive, one negative
Private laboratories	0		Shipping	DHL Express
NRL	16			
Shipping dates	March 17 th 2025			

PT provider
 Unit of Foodborne and Neglected Parasitic Diseases
 Istituto Superiore di Sanità

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Results

The PT final evaluation is qualitative only. The PT was considered passed if all positive and all negative samples were correctly identified by the participant.

Laboratory code	N° of samples correctly identified	N° of samples NOT correctly identified	Final evaluation
A	3	0	Positive
B	3	0	Positive
C	3	0	Positive
D	3	0	Positive
E	3	0	Positive
G	3	0	Positive
H	3	0	Positive
I	3	0	Positive
J	3	0	Positive
L	3	0	Positive
M	3	0	Positive
N	3	0	Positive
O	3	0	Positive
P	3	0	Positive
Q	3	0	Positive
R	3	0	Positive

Summary of results:

Total number of PT panels	16
Number of participant laboratories	16
Number of participants that passed the PT	16
Number of participants that failed the PT	0

Overtime comparison of results

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Overtime comparison of results

2016		2017		2020		2025	
LAB CODE	SAMPLES CORRECTLY CLASSIFIED	LAB CODE	SAMPLES CORRECTLY CLASSIFIED	LAB CODE	SAMPLES CORRECTLY CLASSIFIED	LAB CODE	SAMPLES CORRECTLY CLASSIFIED
A	10/10	A	7/7	A	3/3	A	3/3
B	8/10	B	7/7	B*	/	B	3/3
C	10/10	C	7/7	C	3/3	C	3/3
D	10/10	E	7/7	D	3/3	E	3/3
E	10/10	F	7/7	E*	/	F	3/3
F	10/10	G	7/7	F	3/3	G	3/3
G	10/10	H	7/7	G	3/3	H	3/3
H	10/10	I	7/7	H	3/3	I	3/3
I	10/10	L	7/7	I	3/3	J	3/3
J	10/10	M	7/7	J	3/3	L	3/3
K	10/10	N	7/7	L	3/3	M	3/3
L	10/10	O	7/7	M	3/3	N	3/3
M	10/10	P	7/7			O	3/3
N	10/10	Q	7/7			P	3/3
O	10/10	R	7/7			Q	3/3
P	10/10	S	7/7			R	3/3
Q	10/10	T	7/7				
R	10/10						

Comments:

"Laboratory codes change every year, so a given letter—such as 'A'—may refer to one country one year and to a different country the next."

In 2020*: The laboratory code B and E did not send results due to Covid -19 pandemic.



Written and elaborated by
PTP person in charge

Dr. A. Ludovisi

Verified and issued by
The Director

Dr. A. Casulli

Date 21/05/2025

Notes:

1. To guarantee confidentiality, participant laboratories are identified by alphanumeric codes. PT participant identity is kept confidential and bound by professional secrecy. The PTP reserves itself the right to provide the laboratory PT result to the competent authority on request.
2. The organizer designates a qualified company for the transport and delivery of PT items.
3. Each participating laboratory receives a PT panel according to the PT scheme. Each PT item consists of a serum sample collected from *Toxoplasma gondii* infected pigs as well as from *Toxoplasma gondii* free pigs and tested for anti-*Toxoplasma* IgG by a commercial kit. All proficiency items with the same IgG titer were prepared from a single animal, in order to assure homogeneity. PT items Serum samples, stored between +4-+15°C, are stable for more than 1 month from the date of preparation.
4. At the beginning of each year, the organizer draws up a PT program and makes it known by sending an email to the NRLs
5. The final report issue of each PT round shows the PT program implementation.

End of the report