Final report PT-Tx 1/2016

PT report on "Detection of anti-*Toxoplasma* IgG in swine serum samples"

Design

Purpose	Evaluation of laboratories in charge for official control on food	
Scheme type	Single	
Participants	Public and private, European laboratories	
N. of participants	Depending on request	
Method	not regulated	
Test method	chosen by the participant	
PT items	Matrix	swine serum
	Item	IgG
	N. of samples	10 for each participant
	Distribution	Immediate shipment after preparation
Subcontracted activities	N.A., Not Applicable	
Results evaluation	Qualitative	

Implementation

N. of participants	17	PT items	Serum samples	10
Public laboratories	17			
Private laboratories	0		PT panel composition	8 positive; 2 negative
NRL	14		Shipping	TNT Express
Shipping dates	March 14th 2016			

PT organizer
Unit of Gastroenteric and Tissue Parasitic Diseases
Istituto Superiore di Sanità

Person in charge of PT
Dr. Alessandra Ludovisi
e-mail: alessandra.ludovisi@iss.it; tel: +39 0649902310

Viale Regina Elena, 299 – 00161 Rome, Italy

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
B	**8**	**2**	**NEGATIVE**
C	10	0	POSITIVE
D	10	0	POSITIVE
E	10	0	POSITIVE
F	10	0	POSITIVE
G	10	0	POSITIVE
H	10	0	POSITIVE
I	10	0	POSITIVE
J	10	0	POSITIVE
K	10	0	POSITIVE
L	10	0	POSITIVE
M	10	0	POSITIVE
N	10	0	POSITIVE
O	10	0	POSITIVE
P	10	0	POSITIVE
Q	10	0	POSITIVE
R	10	0	POSITIVE

Legend: Laboratories that failed the PT are marked in bold.

Summary of results:

Total number of PT panels	17
Number of participant laboratories	17
Number of participants that passed the PT	16
Number of participants that failed the PT	1

Overtime comparison of results

Not applicable

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Comments:

The most frequently used commercial kits were immunoenzimatic assays. All NRLs but laboratory B correctly classified, as positive or negative, all serum samples. Laboratory B reported problems during last step (reading) of the test (DAT-Biomerieux) for two serum samples from the panel.

The Director
Dr. E. Pozio

Date 19/05/2016

Notes:

1. To guarantee confidentiality, participant laboratories are identified by alphanumeric codes. PT participant identity is kept confidential and bound by professional secrecy. If PT results have to be provided directly to a competent authority, the organizer shall send a written notice to inform the involved participants.
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

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