

Final report PT-Tm 1/2017

PT “Identification of *Trichinella* larvae at the species level by a molecular method”

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	not applicable
	Item	<i>Trichinella</i> spp. larvae in 96% ethanol
	N. of samples	4 (10 larvae/each) or 12 (1 larva/each) 1.5 ml vials for each participant
	Distribution	Preparation and packaging can be performed before shipment
Subcontracted activities	NA	
Results evaluation	Qualitative	

Implementation

N. of participants	21	PT items	PT panel 4 vials	10 larvae for each of the following species: <i>T. spiralis</i> , <i>T. pseudospiralis</i> , <i>T. nelsoni</i> and <i>T. papuae</i>
Public laboratories	0		PT panel 12 vials	3 larvae for each of the following species: <i>T. spiralis</i> , <i>T. pseudospiralis</i> , <i>T. nelsoni</i> and <i>T. papuae</i>
Private laboratories	0		Shipping	TNT Express
NRLs	21			

PT Provider
 Unit of Gastro-enteric and Tissue Parasitic Diseases
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PTP N° 0005

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

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Shipping dates	March 13, 2017
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Qualitative results

The PT final evaluation was qualitative only. The PT was considered passed if all isolates or, in case of single larvae at least one of them for each isolate, were correctly identified.

Laboratory code	N. right identification	N. wrong identification	N. missed identification	Final evaluation
NRL1	9	3	0	negative
NRL2	4	0	0	positive
NRL3	9	3	0	negative
NRL6	4	0	0	positive
NRL7	12	0	0	positive
NRL8	4	0	0	positive
NRL10	12	0	0	positive
NRL12	4	0	0	positive
NRL14	0	4	0	negative
NRL16	3	1	0	negative
NRL17	4	0	0	positive
NRL18	4	0	0	positive
NRL21	4	0	0	positive
NRL22	12	0	0	positive
NRL23	4	0	0	positive
NRL24	12	0	0	positive
NRL25	4	0	0	positive
NRL40	12	0	0	positive
NRL42*	0	0	4	negative
NRL46	12	0	0	positive
TLE6	4	0	0	positive

*the lab failed the test because of technical problems

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

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Summary of qualitative results:

Total number of PT panels	21
Number of participant laboratories	21
Number of participants that passed the PT	16
Number of participants that failed the PT	5

Overtime comparison of results

Laboratory code	PT 2011	PT 2012	PT 2013	PT 2014	PT 2015	PT 2016	PT2017
NRL1	positive	positive	positive	positive	positive	negative	negative
NRL2	-	-	-	negative	-	-	positive
NRL3	negative	-	positive	positive	positive	positive	negative
NRL4	positive	positive	positive	positive	-	positive	-
NRL6	positive	positive	negative	positive	negative	positive	positive
NRL7	-	negative	negative	positive	positive	positive	positive
NRL8	positive						
NRL9	negative	-	negative	-	-	-	-
NRL10	negative	positive	-	positive	positive	positive	positive
NRL11	positive	negative	positive	positive	-	-	-
NRL12	-	-	positive	-	positive	positive	positive
NRL14	-	-	-	-	-	negative	negative
NRL16	positive	positive	positive	positive	positive	positive	negative
NRL17	-	-	-	positive	positive	negative	positive
NRL18	-	-	-	-	-	NA	positive
NRL21	positive	negative	positive	positive	positive	negative	positive
NRL22	-	positive	negative	negative	positive	positive	positive
NRL23	-	positive	positive	positive	positive	positive	positive
NRL24	negative	-	positive	positive	positive	positive	positive
NRL25	-	-	positive	positive	positive	negative	positive
NRL34	negative	negative	positive	positive	positive	negative	-
NRL35	negative	negative	-	negative	positive	negative	positive
NRL38	positive	-	-	-	-	-	-
NRL40	-	positive	-	-	-	-	positive
NRL42	-	-	-	negative	-	NA	negative
NRL44	-	-	-	negative	-	-	-
NRL45	-	-	-	-	negative	-	-
NRL46	-	-	-	-	-	-	positive
TLE6	-	-	-	-	-	positive	-

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Comments:

The main reason for the PT failure was the incorrect identification of the band pattern of the non-European species present in the sample panel. An improvement in results interpretation is necessary.

The Director
Dr. E. Pozio



Date 14/04/2017

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 4 or 12 1.5 ml vials containing four different *Trichinella spp.* The homogeneity of PT items is ensured by an accurate control of the number of larvae spiked into each vial (item), made by two operators using a stereo microscope. PT items are stable for 5 years from the date of preparation (corresponding to the shipping date), provided that they are maintained in suitable conditions.
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 issued for each PT round shows the PT program implementation.

End of the report

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