

Final report PT –Td 1/2020

PT report on “Digestion method to detect *Trichinella* larvae in meat samples according to the Regulation EU 2015/1375”

Design

Purpose	Evaluation of laboratories in charge for official inspection to detect <i>Trichinella</i> spp. larvae in meat	
Scheme type	Single, simultaneous	
Participants	EU National Reference Laboratories	
N. of participants	Depending on requests	
Method	Regulation EU 2015/1375 (annexes 1 and 3)	
Test method	Regulation EU 2015/1375 (annexes 1 and 3)	
PT items	Matrix	Pork/horse meat
	Item	<i>Trichinella</i> live larvae
	N. of samples	3 for each participant
	Distribution	Immediate shipment after preparation
Subcontracted activities	NA	
Results evaluation	Qualitative	

Implementation

N. of participants	29	PT items	Pork	81
Public laboratories	29		Horse meat	6
Private laboratories	0		PT panel composition	1 positive with 5 larvae and 2 negatives
			Shipping	DHL
Shipping date	March 9, 2020			

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PTP N° 0005 P

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Analysis of the results

According to Regulation EU 2015/1375 of August 10, 2015, laying down specific rules on official controls for *Trichinella* in meat, the results of artificial digestion methods have to be expressed only qualitatively (i.e. as positive if *Trichinella* spp. larvae are found in the sample, or negative if no larvae are present in the sample). Then the PT is considered passed if all positive and negative samples were correctly identified by the participant.

Laboratory code	Sample type	N° of “false positives”	N° of “false negatives”	Final evaluation
NRL50	100 pork	0	0	positive
NRL51	35 pork	0	0	positive
NRL52	100 pork	0	0	positive
NRL53	100 pork	0	0	positive
NRL55	100 pork	0	0	positive
NRL56	100 pork	0	0	positive
NRL57	100 pork	0	0	positive
NRL58	100 pork	0	0	positive
NRL59	100 pork	0	0	positive
NRL60	100 pork	0	0	positive
NRL61	100 pork	0	0	positive
NRL62	100 pork	0	0	positive
NRL64	100 pork	0	0	positive
NRL65	100 pork	0	0	positive
NRL66	100 horse	0	0	positive
NRL67	100 pork	0	0	positive
NRL68	100 pork	0	0	positive
NRL69	100 pork	0	0	positive
NRL70	100 pork	0	0	positive
NRL71	100 pork	0	0	positive
NRL72	100 pork	0	0	positive
NRL73	100 pork	0	0	positive
NRL74	100 pork	0	0	positive
NRL75	100 pork	0	0	positive
NRL77	35 pork	0	0	positive
NRL78	100 pork	0	0	positive
NRL79	100 pork	0	0	positive
NRL80	100 horse	0	0	positive
NRL82	100 pork	0	0	positive

- Laboratories that failed the PT are marked in red.
- Laboratories that attended more than one PT in the same year are identified by a number added after their laboratory code (i.e. TLIX-1, TLIX-2 etc.).

Summary of results:

Number of participant laboratories	29
Number of participants that passed the PT	29

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Number of participants that failed the PT	0
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Overtime comparison of results (last five years)

Laboratory code	2016	2017	2018	2019	2020
NRL50	negative	positive	positive	positive	positive
NRL51	positive	positive	positive	positive	positive
NRL52	positive	positive	positive	positive	positive
NRL53	positive	positive	positive	positive	positive
NRL55	positive	positive	positive	positive	positive
NRL56	positive	positive	positive	positive	positive
NRL57	positive	positive	positive	positive	positive
NRL58	positive	positive	positive	positive	positive
NRL59	positive	positive	positive	positive	positive
NRL60	positive	positive	positive	positive	positive
NRL61	positive	positive	positive	positive	positive
NRL62	positive	positive	positive	positive	positive
NRL64	negative	positive	positive	positive	positive
NRL65	positive	positive	positive	positive	positive
NRL66	positive	positive	positive	positive	positive
NRL67	positive	positive	positive	positive	positive
NRL68	positive	positive	positive	positive	positive
NRL69	positive	positive	positive	positive	positive
NRL70	positive	positive	positive	positive	positive
NRL71	positive	positive	positive	positive	positive
NRL72	positive	positive	negative	positive	positive
NRL73	positive	positive	positive	positive	positive
NRL74	positive	positive	positive	positive	positive
NRL75	negative	positive	positive	negative	positive
NRL77	positive	positive	positive	positive	positive
NRL78	positive	positive	positive	positive	positive
NRL79	positive	positive	positive	positive	positive
NRL80	positive	positive	positive	positive	positive
NRL82	positive	positive	positive	positive	positive

Legend: laboratories that requested multiple set of samples are identified according to the following rules: 1) PT set of the same type are identified by a progressive number after the laboratory code (i.e. TLIX-1, TLIX-2 etc.); 2) PT set made of horse meat are identified by the letter “e” after the laboratory code (i.e.TLX-e); 3) PT set of different weigh are identified by the indication of the weight after the laboratory code (i.e.TLX-35).

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Comments:

The Director
Dr. S.M. Cacciò

Simonella Cacciò

Date 23/03/2020

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 minced pork or horse meat spiked or not with live *Trichinella spiralis* muscle larvae. The homogeneity of PT items is ensured by an accurate control of the number of larvae spiked into each sample (item), made by two operators using a stereo microscope. PT items are stable for 5 days 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 publishing it on the EURLP website (for national, international, public and private laboratories) or by email (NRLs).
5. The final report issue of each PT round shows the PT program implementation.

End of the report

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