

Final report PT –Td 4/2020

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	Public and private, national and international 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	26*	PT items	Pork	48
Public laboratories	23		Horse meat	30
Private laboratories	3		PT panel composition	1 positive with 5 larvae and 2 negatives
*some laboratories requested multiple PT panel			Shipping	DHL
Shipping date	November 9, 2020			

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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
LET19	Pork 100g	0	0	positive
LPT12	Pork 100g	0	0	positive
LPT21	Pork 100g	0	0	positive
LZT11	Horse 100g	0	0	positive
LZT12	Horse 100g	0	0	positive
LZT13	Horse 35g	0	0	positive
LZT13	Horse 35g	0	0	positive
LZT14	Horse 100g	0	0	positive
LZT25	Horse 100g	0	0	positive
LZT28	Pork 100g	0	0	positive
LZT39	Pork 100g	0	0	positive
LZT40	Pork 100g	0	0	positive
LZT41	Pork 100g	0	0	positive
LZT42	Horse 100g	0	0	positive
LZT43	Pork 100g	0	0	positive
LZT44	Pork 100g	0	0	positive
LZT46	Horse 100g	0	0	positive
LZT47	Pork 100g	0	0	positive
LZT48	Pork 100g	0	0	positive
LZT49	Pork 100g	0	0	positive
LZT50	Pork 100g	0	0	positive
LZT50	Horse 100g	0	0	positive
LZT51	Pork 100g	0	0	positive
LZT52	Pork 100g	0	0	positive
LZT52	Horse 100g	0	0	positive
LZT53	Pork 100g	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.).

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Summary of results:

Number of participant laboratories	26
Number of participants that passed the PT	26
Number of participants that failed the PT	0

Overtime comparison of results (last five years)

Laboratory code	2016	2017	2018	2019	2020
LET19	-	positive	positive	positive	positive
LPT12	positive	positive	positive	positive	positive
LPT21	positive	positive	positive	positive	positive
LZT11	positive	positive	positive	positive	positive
LZT12	positive	positive	positive	positive	positive
LZT13-35g	positive	positive	positive	positive	positive
LZT13-100g	positive	positive	positive	positive	positive
LZT14	positive	positive	positive	positive	positive
LZT25	positive	positive	positive	positive	positive
LZT28	positive	positive	positive	positive	positive
LZT39	positive	positive	positive	positive	positive
LZT40	positive	positive	positive	positive	positive
LZT41	positive	positive	positive	positive	positive
LZT42	positive	positive	positive	positive	positive
LZT43	positive	positive	positive	positive	positive
LZT44	positive	positive	positive	positive	positive
LZT46	positive	positive	positive	positive	positive
LZT47	positive	positive	positive	-	positive
LZT48	positive	positive	positive	positive	positive
LZT49	positive	positive	positive	positive	positive
LZT50	positive	positive	positive	positive	positive
LZT50-e	-	positive	-	positive	positive
LZT51	positive	positive	positive	positive	positive
LZT52	positive	positive	positive	positive	positive
LZT52-e	-	positive	positive	positive	positive
LZT53	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 "h" 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 17/11/2020

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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