

## Final report PT –Td 2/2020

### 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	19	PT items	Pork	51
Public laboratories	12		Horse meat	6
Private laboratories	7		PT panel composition	1 positive with 5 larvae and 2 negatives
			Shipping	DHL
Shipping date	June 8, 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
LZT8	pork 35g	0	0	positive
LZT10	horse 100g	0	0	positive
LZT15	horse 35g	0	0	positive
LZT15	pork 100g	0	0	positive
LZT18	pork 100g	0	0	positive
LZT21	pork 100g	0	0	positive
LZT22	pork 35g	0	0	positive
LZT22	pork 100g	0	0	positive
LZT30	pork 100g	0	0	positive
LZT31	pork 100g	0	0	positive
LZT32	pork 100g	0	0	positive
LZT33	pork 100g	0	0	positive
LZT37	pork 100g	0	0	positive
LPT1	pork 100g	0	0	positive
LPT7	pork 100g	0	0	positive
LPT17	pork 35g	0	0	positive
LPT17	pork 100g	0	0	positive
LPT25	pork 100g	0	0	positive
LPT32	pork 100g	0	0	positive
LPT33	pork 100g	0	0	positive
LET6	pork 100g	0	0	positive
LET17	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.).

### Summary of results:

Number of participant laboratories	19
Number of participants that passed the PT	19
Number of participants that failed the PT	0

### Overtime comparison of results (last five years)

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Laboratory code	2016	2017	2018	2019	2020
LZT8	positive	positive	negative	positive	positive
LZT10	positive	positive	positive	positive	positive
LZT15	positive	positive	positive	positive	positive
LZT15	positive	positive	positive	positive	positive
LZT18	positive	positive	positive	positive	positive
LZT21	positive	positive	negative	positive	positive
LZT22	positive	positive	positive	positive	positive
LZT22h	positive	positive	positive	positive	positive
LZT30	positive	-	-	positive	positive
LZT31	-	-	positive	positive	positive
LZT32	-	-	-	positive	positive
LZT33	-	-	positive	positive	positive
LZT37	-	-	positive	positive	positive
LPT1	negative	positive	positive	negative	positive
LPT7	-	-	positive	negative	positive
LPT17	-	-	positive	positive	positive
LPT17	-	-	positive	positive	positive
LPT25	positive	-	positive	positive	positive
LPT32	-	-	-	-	positive
LPT33	-	-	-	-	positive
LET6	-	-	positive	positive	positive
LET17	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).

**Comments:**

The Director  
 Dr. S.M. Cacciò

*Simonella Cacciò*

**Date** 17/06/2020 .....

**Notes:**

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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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