

Final report PT –Td 1/2018

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 (annex 1)	
Test method	Regulation EU 2015/1375 (annex 1)	
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	31	PT items	Pork	87
Public laboratories	31		Horse meat	6
Private laboratories			PT panel composition	2 positives with 4 larvae each and 1 negative
			Shipping	TNT Express
Shipping date	March 12, 2018			

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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	N° of samples correctly identified	N° of samples NOT correctly identified	Final evaluation
NRL1	3	0	positive
NRL2	3	0	positive
NRL3	3	0	positive
NRL4	3	0	positive
NRL5	3	0	positive
NRL6	3	0	positive
NRL7	3	0	positive
NRL8	3	0	positive
NRL9	3	0	positive
NRL10	3	0	positive
NRL11	3	0	positive
NRL12	3	0	positive
NRL13	3	0	positive
NRL14	3	0	positive
NRL15	3	0	positive
NRL16	3	0	positive
NRL17	3	0	positive
NRL18	3	0	positive
NRL19	3	0	positive
NRL20	3	0	positive
NRL21	3	0	positive
NRL22	3	0	positive
NRL23	2	1	negative
NRL24	3	0	positive
NRL25	3	0	positive
NRL26	3	0	positive
NRL35	3	0	positive
NRL40	3	0	positive
NRL41	3	0	positive
NRL42	3	0	positive
TLE6	3	0	positive

- Laboratories that failed the PT are marked in bold, laboratories that successfully repeated the PT are marked in bold italic.
- 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.)
- Laboratories that attended more than one PT in the same year using samples of different weight, are identified by the sample weight after their laboratory code (i.e. TLX-35g o TLX-100g)

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Summary of results:

Number of participant laboratories	31
Number of participants that passed the PT	30
Number of participants that failed the PT	1

Overtime comparison of results

NRL code	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1	positive	positive	positive	positive	positive	positive	positive	positive	positive	negative	positive
2	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
3	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
4	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
5	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
6	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
7	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
8	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
9	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
10	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
11	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
12	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
13	negative	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
14	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
15	negative	positive	negative	positive	positive	positive	negative	positive	positive	negative	positive
16	positive	positive	positive	positive	negative	positive	negative	positive	positive	positive	positive
17	negative	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
18	positive	positive	positive	positive	negative	positive	negative	positive	positive	positive	positive
19	positive	positive	positive	positive	positive	positive	positive	positive	negative	positive	positive
20	-	positive	positive	positive	positive	positive	positive	positive	positive	positive	positive
21	positive	positive	positive	positive	negative	positive	positive	positive	positive	positive	positive
22	negative	negative	positive	positive	positive	positive	positive	positive	positive	positive	positive
23	positive	positive	positive	positive	positive	positive	positive	positive	negative	positive	negative
24	positive	positive	negative	positive	positive	positive	positive	positive	positive	positive	positive
25	positive	negative	negative	positive	negative	positive	positive	-	negative	positive	positive
26	-	-	-	positive	positive	positive	positive	positive	positive	negative	positive
34	-	-	positive	positive	positive	positive	positive	positive	positive	positive	-
35	-	-	-	negative	positive	positive	-	positive	negative	positive	positive
40	-	-	-	-	-	positive	positive	positive	positive	positive	positive
41	-	-	-	-	-	-	positive	positive	positive	-	positive
42	-	-	-	-	-	-	negative	positive	positive	positive	positive
TLE6	-	-	-	-	-	-	-	positive	positive	positive	positive

Legend:

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

Comments: The laboratory NRL23 was invited to investigate the causes of the failure and to implement the appropriate corrective actions. In case the lab was interested in repeating the test, the shipment of a new sample panel (EQA scheme) will be arranged.

The Director
Dr. E. Pozio



Date 26/03/2018

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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