

Final report PT –Td 1/2019

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	32	PT items	Pork	93
Public laboratories	32		Horse meat	3
Private laboratories	0		PT panel composition	3 positive samples, 4 larvae each
			Shipping	DHL
Shipping date	March 11, 2019			

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MO/MAQ/12.1.EN rev. 10



PTP N° 0005

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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	3	0	positive
NRL24	3	0	positive
NRL25	3	0	positive
NRL26	1	2	negative
NRL35	3	0	positive
NRL40	3	0	positive
NRL41	3	0	positive
NRL42	3	0	positive
NRL47	3	0	positive
TLE6	3	0	positive

Legend: Laboratories that failed the PT are marked in red

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Summary of results:

Number of participant laboratories	32
Number of participants that passed the PT	31
Number of participants that failed the PT	1

Overtime comparison of results (last five years)

NRL code	2015	2016	2017	2018	2019
1	positive	negative	positive	positive	positive
2	positive	positive	positive	positive	positive
3	positive	positive	positive	positive	positive
4	positive	positive	positive	positive	positive
5	positive	positive	positive	positive	positive
6	positive	positive	positive	positive	positive
7	positive	positive	positive	positive	positive
8	positive	positive	positive	positive	positive
9	positive	positive	positive	positive	positive
10	positive	positive	positive	positive	positive
11	positive	positive	positive	positive	positive
12	positive	positive	positive	positive	positive
13	positive	positive	positive	positive	positive
14	positive	positive	positive	positive	positive
15	positive	negative	positive	positive	positive
16	positive	positive	positive	positive	positive
17	positive	positive	positive	positive	positive
18	positive	positive	positive	positive	positive
19	negative	positive	positive	positive	positive
20	positive	positive	positive	positive	positive
21	positive	positive	positive	positive	positive
22	positive	positive	positive	positive	positive
23	negative	positive	positive	negative	positive
24	positive	positive	positive	positive	positive
25	negative	positive	positive	positive	positive
26	positive	negative	positive	positive	negative
34	positive	positive	positive	-	positive
35	negative	positive	positive	positive	positive
40	positive	positive	positive	positive	positive
41	positive	-	positive	positive	positive
42	positive	positive	positive	positive	positive
47	-	-	positive	-	positive
TLE6	positive	positive	positive	positive	positive

Legend: Laboratories that failed the PT are marked in red

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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. S.M. Cacciò



Date 30/05/2019

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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