



Final report PT-01: Td 2/2022

PT-01: Artificial digestion to detect *Trichinella* larvae in meat samples according to the Regulation EU 2020/1478 and Regulation EU 2015/1375, Annex III

Evaluation of laboratories in charge for official inspection to detect Purpose Trichinella spp. larvae in meat Scheme type Single, simultaneous Participants Public and private, national and international laboratories N. of participants Depending on requests Method Reg EU 2020/1478 and Reg EU 2015/1375 (Ann III) Matrix Pork/horse meat Item Trichinella live larvae PT items N. of samples Distribution Immediate shipment after preparation Subcontracted activities NA Qualitative, as stated in the ISO 18743:2015 cited in the Reg EU **Results evaluation** 2020/1478

Design

Implementation

N. of participants	32		Pork	96	
Public laboratories	32		Horse meat	0	
Private laboratories	0	PT items	PT panel composition	1 negative and 2 positive samples (3 and 5 larvae)	
			Shipping	DHL	
Shipping date	March 14, 2022				

PT Provider

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Analysis of the results

As stated in the ISO 18743:2015, cited in the Regulation EU 2020/1478, 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 the participant correctly identified all positive and negative samples.

Laboratory code	Item type	N° of "false positive"	N° of "false negative"	Final evaluation	
NRL50	100g pork	0	0	positive	
NRL51	100g pork	0	0	positive	
NRL52	100g pork	0	0	positive	
NRL53	100g pork	0	0	positive	
NRL55	100g pork	0	0	positive	
NRL56	100g pork	0	0	positive	
NRL57	100g pork	0	0	positive	
NRL58	100g pork	0	0	positive	
NRL59	100g pork	0	0	positive	
NRL60	100g pork	0	0	positive	
NRL61	100g pork	0	0	positive	
NRL62	100g pork	0	0	positive	
NRL63	100g pork	0	0	positive	
NRL64	100g pork	0	0	positive	
NRL65	100g pork	0	0	positive	
NRL66	100g pork	0	0	positive	
NRL67	100g pork	0	0	positive	
NRL68	100g pork	0	0	positive	
NRL69	100g pork	0	0	positive	
NRL70	100g pork	0	0	positive	
NRL71	100g pork	0	0	positive	
NRL72	100g pork	0	0	positive	
NRL73	100g pork	0	0	positive	
NRL74	100g pork	0	0	positive	
NRL75	100g pork	0	0	positive	
NRL76*	100g pork	nr	nr	nr	
NRL77	100g pork	0	0	positive	
NRL78	100g pork	0	0	positive	
NRL79	100g pork	0	0	positive	
NRL80	100g pork	0	0	positive	
NRL82	100g pork	0	0	positive	
NRL83	100g pork	0	0	positive	

*the participant could not complete the analysis of the samples due to a technical problem

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Summary of results:

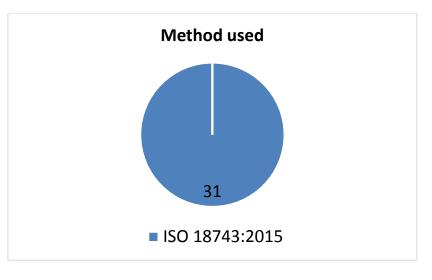
Number of participant laboratories	32		
Number of participants that passed the PT	31*		
Number of participants that failed the PT	0		

*one participant could not complete the PT because of technical problems

All participants analyzed PT panels made of 100g pork.

Sample type 32 pork 100

All participants analysed the PT panels by applying the ISO 18743:2015 "Detection of Trichinella larvae in meat by artificial digestion method".



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Overtime comparison of results

Laboratory	2018	2019	2020	2021	2022
code	2010	2013			LULL
NRL50	positive	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
NRL63	positive	positive	-	positive	positive
NRL64	positive	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	negative	positive	positive	positive	positive
NRL73	positive	positive	positive	positive	positive
NRL74	positive	positive	positive	positive	positive
NRL75	positive	negative	positive	positive	positive
NRL76	positive	positive	-	positive	nr
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	negative	positive
NRL83	-	positive	-	positive	positive

The overtime comparison of PT results obtained in the last five years shows the occasionally failure of no more than one laboratory.

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Mutual Recognition Agreements





Comments

The laboratory NRL76 requested a new set of sample, as EQA scheme, not having been able to complete the analysis of the PT panel due to a technical problem.

Date 24/03/2022

PTP person in charge

Dr. G. Marucci

jambre Morrece.

The Director

Dr. S.M. Cacciò

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Notes:

- To guarantee confidentiality, participant laboratories are identified by alphanumeric codes. PT participant identity is kept confidential and bound by professional secrecy. The PTP reserves itself the right to provide the laboratory PT result to the competent authority on request.
- 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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