

Final PT report – An 1/2015

PT report on “Detection of Anisakidae L3 larvae in fish fillets”

Design

Purpose	To evaluate the competence of laboratories in detecting Anisakidae larvae in fish fillets	
Scheme type	Single	
Participants	Public and private, European laboratories	
N. of participants	Depending on request	
Method	Not regulated	
Test method	Chosen by the participant laboratory	
PT items	Matrix	Fresh water farmed fish fillet
	Item	Anisakidae live larvae
	N. of samples	Three for each participant laboratory
	Distribution	Immediate shipment after preparation
Subcontracted activities	PT item transport and delivery	
Results evaluation	Qualitative	

Implementation

N. of participants	27	PT items	total fish fillet sandwiches	81
Public laboratories	2		PT panel composition	1 fish fillet sandwich with 0 larva
Private laboratories	0			1 fish fillet sandwich with 1 larva
NRL	25		Subcontractor	TNT Express
Shipping dates	16/03/2015			

PT Provider
 European Union Reference Laboratory for Parasites
 Istituto Superiore di Sanità

In charge of the PT
 Dr. Marco Lalle
 e-mail: marco.lalle@iss.it; tel: +39 0649902670



Viale Regina Elena, 299 – 00161 Rome, Italy

PTP N° 0005



Qualitative results

The PT final evaluation was qualitative only. The PT was considered passed if all positive and all negative samples were correctly identified by the participant laboratory. The PT was considered negative if at least one sample was not correctly identified (false positive or false negative).

Laboratory code	N° false positives	N° false negatives	Final evaluation
A1	0	0	Positive
A2	0	0	Positive
A3	0	0	Positive
A4	0	0	Positive
A5	0	0	Positive
A6	0	0	Positive
A7	0	0	Positive
A8	0	0	Positive
A10	0	0	Positive
A11	1	1	Negative
A12	0	1	Negative
A13	0	0	Positive
A14	0	0	Positive
A15	0	0	Positive
A16	0	0	Positive
A18	0	0	Positive
A19	0	0	Positive
A20	0	0	Positive
A21	0	0	Positive
A22	0	0	Positive
A25	0	0	Positive
A26	0	0	Positive
A29	0	0	Positive
A30	0	0	Positive
A31	0	0	Positive
A32	0	0	Positive
A33	0	0	Positive

PT Provider
European Union Reference Laboratory for Parasites
Istituto Superiore di Sanità

In charge of the PT
Dr. Marco Lalle
e-mail: marco.lalle@iss.it; tel: +39 0649902670



Viale Regina Elena, 299 – 00161 Rome, Italy

PTP N° 0005



Legend:

- Laboratories that failed the PT are marked in bold.

Summary of qualitative results:

Total number of PT items	81
Number of participant laboratories	27
Number of participant laboratories, which passed the PT	25
Number of participant laboratories, which failed the PT	2

Comments:

The causes of laboratory failure have been analyzed and can be attributed to: i) shuffling of sample codes; ii) limited experience of single analysts in performing the methods, and/or in morphological identification of Anisakidae larvae.

The Director
Dr. E. Pozio

Data 06/05/2015

Notes:

1. To guarantee confidentiality, participant laboratories are identified by alphanumeric codes. PT participant laboratory 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 participant laboratory.
2. The organizer subcontracts PT item transport and delivery to a qualified transportation company.
3. Each participating laboratory receive a PT panel according to the PT scheme. Each PT item consists of a fish fillet sandwich spiked or not with live Anisakidae 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 7 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 sending an email to the NRLs
5. The final report issue of each PT round shows the PT program implementation.

End of the report

PT Provider
European Union Reference Laboratory for Parasites
Istituto Superiore di Sanità

In charge of the PT
Dr. Marco Lalle
e-mail: marco.lalle@iss.it; tel: +39 0649902670



Viale Regina Elena, 299 – 00161 Rome, Italy

PTP N° 0005