



## Final Report PT-Ec 1/2017

# PT <u>"Detection of *Echinococcus* sp. adult worms in the intestinal mucosa of the definitive host"</u>

## Design

Purpose	Correctly identify the presence of adult worms of <i>Echinococcus</i> sp. in a matrix made by intestinal mucosa.			
Scheme type	Single			
Participants	Public and private, European laboratories			
N. of participants	Depending on request			
Method	Not regulated			
Test method	Sedimentation and counting technique (SCT)			
PT items	Matrix	intestinal mucosa		
	Item	adult worms of Echinococcus spp.		
	N. of samples	3 for each participant		
	Distribution	Immediate shipment after preparation		
Subcontracted activities	NA			
Results evaluation	Qualitative			

# Implementation

N. of participants	27		intestinal mucosa (ml)/ sample	6
Public laboratories	27		Ethanol 70% (ml)	6
Private laboratories	0	PT items	PT panel composition	3 samples (0,8,25 adult worms)
NLR	27		Shipping	TNT Express
Shipping dates	13/03/17			

PT Provider

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PTP N° 0005

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

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## Results

The final evaluation is only based on qualitative evaluation and is expressed as "positive" if the results of all samples are correct or "negative" if at least one result is incorrect.

LAB CODE	SAMPLE 1 (N=0)	SAMPLE 2 (N=8)	SAMPLE 3 (N=25)	FINAL EVALUATION
E1	Correct	Correct	Correct	Positive
E2	Correct	Correct	Correct	Positive
E3bis	Correct	Correct	Correct	Positive
E4	Correct	Correct	Correct	Positive
E5	Correct	Correct	Correct	Positive
E6	Correct	Correct	Correct	Positive
E7	Correct	Correct	Correct	Positive
E8	Correct	Correct	Correct	Positive
E9	Correct	Correct	Correct	Positive
E10	Correct	Correct	Correct	Positive
E11	Correct	Correct	Correct	Positive
E12	Correct	Correct	Correct	Positive
E14	Correct	Correct	Correct	Positive
E15	Correct	Correct	Correct	Positive
E17	Correct	Correct	Correct	Positive
E18	Correct	Correct	Correct	Positive
E19	Correct	Correct	Correct	Positive
E21	Correct	Incorrect	Correct	Negative
E22	Correct	Correct	Correct	Positive
E23	Correct	Correct	Correct	Positive
E24	Correct	Correct	Correct	Positive
E25	Correct	Correct	Correct	Positive
E26	Correct	Correct	Correct	Positive
E27	Correct	Correct	Correct	Positive
E28	Correct	Correct	Correct	Positive
E30	Correct	Correct	Correct	Positive
E31	Correct	Correct	Correct	Positive

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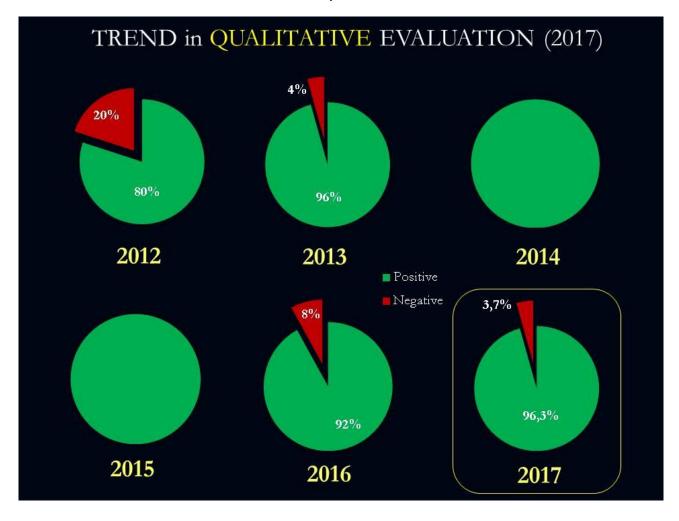




#### Summary of results:

Number of participant laboratories	27
Number of participants that passed the PT	26
Number of participants that failed the PT	1
Number of participants that requested EQA scheme	1

Overtime comparison of results

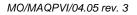


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#### Comments:

The experience derived from the PT carried out in 2017, showed that the personnel of NRLs are skill to detect this parasite in a qualitative test. The comparison of the results during the last 6 years, demonstrates that the detection capabilities of the personnel is increasing over time.

The laboratory E3 on 20/03/17 claimed that the samples arrived frozen, then a new panel (E3bis) was sent to this Laboratory.

The laboratory E21, which failed the PT, requested a new panel of samples to be analysed in order to implement a corrective action. A panel of samples, considered as an External quality assessment (EQA) scheme, will be sent to the laboratory, which will receive an Individual Report.

The Director Dr. E. Pozio

Date 11 May 2017

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 intestinal mucosa, fixed in 70% ethanol, spiked or not with *Echinococcus* spp. adult worms. The homogeneity of PT items is ensured by an accurate control of the number of worms spiked into each sample (item), made by two operators using a stereo microscope. PT items are stable for 21 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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