

Final report PT-09: Tr 1/2025

PT-09: “Detection of anti-*Trichinella* IgG in animal serum samples”

Design

| | | |
|--------------------------|------------------------------------------------------------------------------------------------|--------------------------------------|
| Purpose | Evaluation of laboratories competence in detection anti <i>Trichinella</i> IgG in animal serum | |
| Scheme type | Single, simultaneous | |
| Participants | National reference laboratories for parasites. Public and private laboratories | |
| N. of participants | Depending on request | |
| Method | not regulated | |
| Test method | chosen by the participant | |
| PT items | Matrix | serum |
| | Item | IgG |
| | N. of samples | 5 for each participant |
| | Distribution | Immediate shipment after preparation |
| Subcontracted activities | NA | |
| Results evaluation | Qualitative | |

Implementation

| | | | | |
|----------------------|-----------------------------|----------|----------------------|------------------------|
| N. of participants | 4 | PT items | Serum samples | 5 |
| Public laboratories | 4 | | PT panel composition | 3 positive, 2 negative |
| Private laboratories | 4 | | Shipping | DHL Express |
| NRL | 4 | | | |
| Shipping dates | March 17 th 2025 | | | |

PT provider
 Unit of Foodborne and Neglected Parasitic Diseases
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Results

The PT final evaluation is qualitative only. The PT was considered passed if all positive and all negative samples were correctly identified by the participant.

| Laboratory code | N° of samples correctly identified | N° of samples NOT correctly identified | Final evaluation |
|-----------------|------------------------------------|----------------------------------------|------------------|
| M* | / | / | N.A. |
| O | 5 | 0 | Positive |
| P | 5 | 0 | Positive |
| S | 5 | 0 | Positive |
| T* | / | / | N.A. |
| U | 5 | 0 | Positive |

Notes

*The laboratories with code M and T mistakenly submitted the participation request form and only became aware of the error after receiving the serum panel.

Summary of results:

| | |
|-------------------------------------------|---|
| Total number of PT panels | 6 |
| Number of participant laboratories | 4 |
| Number of participants that passed the PT | 4 |
| Number of participants that failed the PT | 0 |

Overtime comparison of results: Not applicable

Written and elaborated by
PTP person in charge

Dr. A. Ludovisi



21/05/2025

Verified and issued by
The Director

Dr. A. Casulli



Notes:

1. 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 a serum sample collected from *Toxoplasma gondii* infected pigs as well as from *Toxoplasma gondii* free pigs and tested for anti-*Toxoplasma* IgG by a commercial kit. All proficiency items with the same IgG titer were prepared from a single animal, in order to assure homogeneity. PT items Serum samples, stored between +4-+15°C, are stable for more than 1 month from the date of preparation.
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