

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

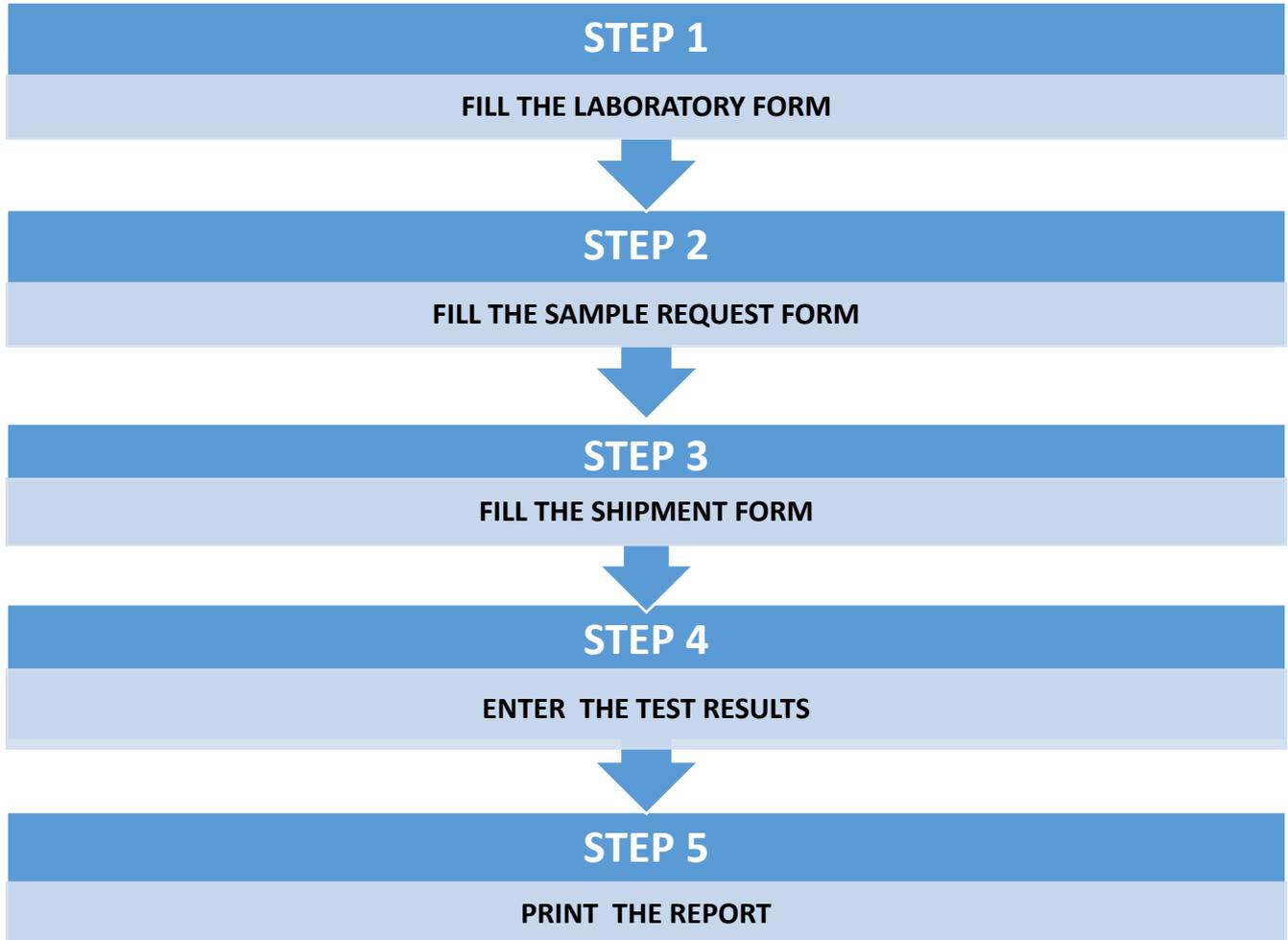
Instructions

Before performing the test, the following remarks are to be taken into account:

1. it's necessary to treat PT items in the same manner as the routinely tested samples (except blending/grinding which have to be reduced to 1-2 seconds to avoid disrupting larvae);
2. the samples have to be stored refrigerated at 4-15°C before the digestion test is performed, to prevent larvae to be damaged;
3. digestion methods to be applied are limited to those approved by the ISO standard 18743:2015 included in Regulation EU 2020/1478); the test has to be performed **within 5 or 20 days, for naked or encapsulated larvae, respectively**, after the date of preparation;
4. it is recommended that the test be performed when the item reaches the room temperature (to prevent a strong reduction of the temperature of the digestive solution when adding the sample);
5. items have to be handled by the personnel following the routine safety procedures requested for infectious biological material, i.e. wearing individual protection devices (coat, mask and gloves). Moreover, the handling of hydrochloric acid requires the use of a fume hood;
6. the latest date to submit the results of samples analysis in the PT round, is indicated in the shipment form list section of the web site; **after this date, it will be impossible to fill in the form with the test results.**

You are requested to follow very carefully the instructions below, and to **fill in** the check boxes included in the forms. All data referring to your lab (results, reports, etc.) will be identified by a unique laboratory code.

Workflow





Step 1. Laboratory form

The laboratory admitted to participate to the PT, or that wish to receive samples containing *Trichinella* larvae for different purposes, have to fill the laboratory identification form.

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◀ Start page : Laboratory form

Institute/company (*)	<input type="text" value="Istituto Superiore di Sanità"/>
Laboratory (*)	<input type="text" value="EURLP"/>
Address (*)	<input type="text" value="Viale Regina Elena, 299"/>
Zip code (*)	<input type="text" value="00161"/>
Country (*)	<input style="border-bottom: none; border-top: none; border-left: none; border-right: none;" type="text" value="Italy"/> ▾
City (*)	<input type="text" value="Roma"/>
Telephone (*)	<input type="text" value="+3949902304"/>
Fax (*)	<input type="text" value="+3949903561"/>
E-mail (*)	<input type="text" value="simone.caccio@iss.it"/>
URL	<input type="text"/>
Person in charge name	<input type="text" value="Simone"/>
Person in charge surname	<input type="text" value="Cacciò"/>
Notes	<input type="text"/>

Fiscal data

Address (^)	<input type="text"/>
Zip code (^)	<input type="text"/>
Country (^)	<input type="text"/> ▾
City (^)	<input type="text"/>
Telephone (^)	<input type="text"/>
Fax (^)	<input type="text"/>
E-mail (^)	<input type="text"/>
VAT (§)	<input type="text"/>

In the section below the laboratory can insert data about the person/s to contact in case of problems.

	Name	Surname	Telephone	Email	Contact type
Edit Delete	<input type="text" value="Gianluca"/>	<input type="text" value="Marucci"/>	<input type="text" value="+3949902310"/>	<input type="text" value="marucci@iss.it"/>	<input type="text" value="Contact persi"/>

Insert new contact and then edit...



Step 2. Sample request

From the **Start page**, you can access to:

- **PT request**
- **Other request:**
 - o **validation**
 - o **training**
 - o **accreditation body audit**

These forms summarize the samples required by the lab for each shipment.

PT sample request allows to subscribe a participation to a scheduled PT (the date is fixed by the provider) or to a not scheduled PT (the date can be selected among those proposed by the provider).

To request a new shipment, click on **New scheduled PT request** or on **New not scheduled PT request**. A window will appear, where the lab can select the service type, the shipment date (only for not scheduled PT) and the type of samples (pork or horse meat; 35g or 100g sample). By clicking on **Insert**, the lab send the request to the EURLP. For a non scheduled PT, the software does not accept request made less than 21 days before the shipment date. The lab can cancel the request by clicking on **Delete** up to 7 days before the shipment date. After that time, the samples will be sent and the cost will be charged to the lab.

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◀ Start page : Request list

	Preferential Date	Scheduled	Sample type	Weight
View Delete		Yes	Pork	100g

(*) *New (Scheduled) PT request..* - (^) *New (Not scheduled) PT request..*

(*) *Shipment date is fixed by the provider*

(^) *The participant can choose the date of shipment between those proposed by the provider*

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◀ Start page : Request list : Request

Scheduled

PT sample request

Sample type

Weight

Notes

Insert Cancel



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◀ Start page : Request list : Request

PT sample request

Date

Sample type

Weight

Notes

Insert Cancel

Other request (validation, training, audit)

To request a new shipment, click on **New request**. The lab can select: 1) the shipment date, among those scheduled; 2) the type of samples (pork or horse meat; 35g or 100g sample); 3) with or without *Trichinella* larvae; 4) the number of samples. By clicking on **Insert**, the lab send the request. The software does not accept request made less than 21 days before the scheduled shipment date. The lab can cancel the request by clicking on **Delete** up to 7 days before the shipment date. After that time, the samples will be sent and the cost will be charged to the lab.

	Prof. Date	100g Sw.	100g Eq.	35g Sw.	35g Eq.	100g Sw.(*)	100g Eq.(*)	35g Sw.(*)	35g Eq.(*)
View Delete	9/10/2012	1				1			
View Delete	12/3/2012		1				1		
						(*) neg	(*) neg	(*) neg	(*) neg

New request...



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◀ Start page : Request list : Request

Request form

Service type	<input type="text"/>
Date	<input type="text"/>
Number of 100 g pork samples with Trichinella larvae	<input type="text"/>
Number of 100 g horse meat samples with Trichinella larvae	<input type="text"/>
Number of 35 g pork samples with Trichinella larvae	<input type="text"/>
Number of 35 g horse meat samples with Trichinella larvae	<input type="text"/>
Number of 100 g pork samples without Trichinella larvae	<input type="text"/>
Number of 100 g horse meat samples without Trichinella larvae	<input type="text"/>
Number of 35 g pork samples without Trichinella larvae	<input type="text"/>
Number of 35 g horse meat samples without Trichinella larvae	<input type="text"/>
Notes	<input type="text"/>

Insert Cancel

Step 3. Delivery list

This list is the repository of requested samples.

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◀ Start page : Shipment form list

		Service	Shipment date	Arrival date	Due date
Print	View	Training	17/02/2011		24/02/2011
Print	View	Training	27/02/2011		07/03/2011
Print	View	Validation official method	14/02/2011		21/02/2011
Print	View	Proficiency Test	14/02/2011		21/02/2011

By clicking on **View**, the **Shipment form** is displayed. The laboratory has to fill in the form by entering:
 Shipment arrival date
 Time (hour) of the package opening
 Check of the package content (n. of samples)
 Check of the package content conditions (sample integrity and refrigeration).

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◀ Start page : Shipment form list : Shipment form

Shipment date

Arrival date

Arrival time (es. 15.30)

At what time did you open it (es. 15.30)

Notes

The package contains the number of meat ball samples requested Yes No Notes

The samples are still under vacuum Yes No Notes

The samples are still refrigerated in the package (temperature <10°C) Yes No

By clicking on **Update**, the laboratory submit the requested data.

Step 4. Enter test results

The table **Results** summarizes data of each samples received.

Results

	Code	Type	Grams	No. spiked larvae	No. recovered larvae
View	5604	Horse	100	2	0
View	4514	Horse	100	4	0
View	3134	Horse	100	5	0
View	2138	Horse	100	5	0
View	1127	Horse	100	10	0
View	3073	Horse	100	0	0

By clicking on **View**, the 'Sample results' window will open, and the laboratory can enter the number of larvae recovered in the sample, and the method chosen to test the sample among the official methods reported in the Regulation EU 2020/1478.

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[Start page](#) : [Shipment form list](#) : [Shipment form](#) : [Sample results](#)

Sample : 9346

Sample type	<input type="text" value="Pork"/>
Grams	<input type="text" value="100"/>
Number of recovered larvae	<input type="text" value="4"/>
Method	<input type="text" value="Magnetic stirrer method for pooled sample digestion"/>
Notes	<input type="text"/>

By clicking on **Update**, the entered data are recorded. Data can be updated up to the dead line.

Step 5. Print the Report

The report summarizing the results of each panel of samples will be available in pdf format after the dead line by clicking on **Print** in the **Shipment form** (see Step 2).

The ISO standard 18743:2015 states that the results of artificial digestion methods have to be expressed qualitatively (i.e., as positive, if *Trichinella* spp. larvae are found in the sample; or negative, if no larvae are present in the sample).

Therefore, the EURLP provides the Individual PT Report to the participant lab, based only on qualitative result. Furthermore, in order to allow laboratories to know the sensitivity of their SOPs in applying the method, a summary including the number of larvae spiked in each sample, the number of larvae recovered by the laboratory, and the difference (Δ) between expected and observed number of larvae. The EURLP provides also recommendations on the basis of the PT outcome.

The PT Final Report, including results of all participating labs, is published in the EURLP web site.

For any request or problem related to the web site access, please contact:

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