

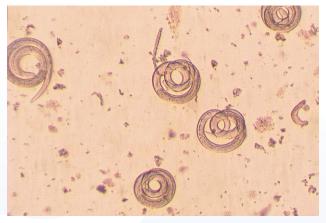


Detection of *Trichinella* in meat according to EU Regulation 2015/1375

Meat of domestic swine, wild boar, horses and other animal species may be infested with nematodes of the genus *Trichinella*.

Consumption of meat infested with Trichinella can cause **serious disease** (trichinosis) in humans and even cause death.

Measures should be put in place to prevent human disease caused by the consumption of meat infested with *Trichinella*. The **Commission Regulation** (EU) 2015/1375 of 10 August 2015 stablishes specific rules on **official controls** for *Trichinella* in meat. Various laboratory methods have been approved for the detection of *Trichinella* in fresh meat. In the Annex I of this Regulation is stablished the reference detection method and the reagents to be used. This method is based on **digestion** of fresh meat and the cysts containing the *Trichinella* larvae using a solution of pepsin in acid medium. The released larvae are examined in the trichinoscope or in the stereo-microscope.



Trichinella spiralis





PanReac AppliChem offers the two reagents used in this method:

- Pepsin 1:10.000 NF (US National Formulary) corresponding to 1:12.500 BP (British Pharmacopoeia) and to 2.000 FIP (Fédération internationale de pharmacie), or stabilised Liquid Pepsin with minimum 660 European Pharmacopoeia units/mL.
- Hydrochloric Acid 25%

There are several **critical control points** that can affect in the reliability of the results. One of the most important points is the **quality of the pepsin**.

We control two important parameters that can affect in the analysis:

- The proteolytic activity which must be according to the Regulation to assure a complete digestion and to avoid possible false negative results.
- A very low insoluble matter in water to allow a clear larvae visualisation.

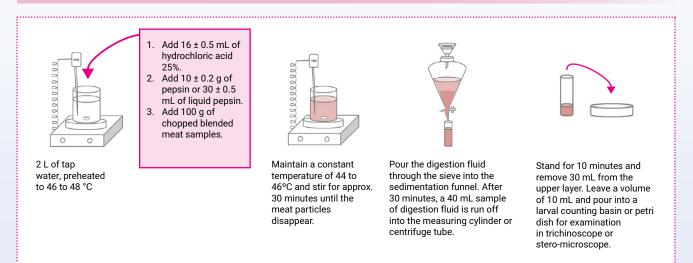


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Scheme of the reference detection method



Comparative of Pepsin 1:10.000 NF (code 175208) of PanReac AppliChem and another competitor (specified and actual value)

	Specified value		Actual value	
Determination	PanReac AppliChem	Competitor	PanReac AppliChem	Competitor
Identity	IR passes test	-	IR passes test	-
pH of 5% solution	3-5	4-5.5	4.2	4
Proteolytic activity	1:10.000 NF	1:10.000 NF	1:10.000 NF	1:5.000 NF
Insoluble matter in H ₂ O	Passes test	_		

Product code	Product name	CAS number	Pack sizes
133378	Hydrochloric Acid 25% for analysis, ISO	7647-01-0	1 L, 2.5 L, 5 L
176408	Liquid Pepsin	9001-75-6	5 L
175208	Pepsin 1:10.000 NF	9001-75-6	1 kg
175748	Pepsin Pack	_	3 x 175208 (1 kg) 1 x 133378 (5 L)

IP-036EN

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