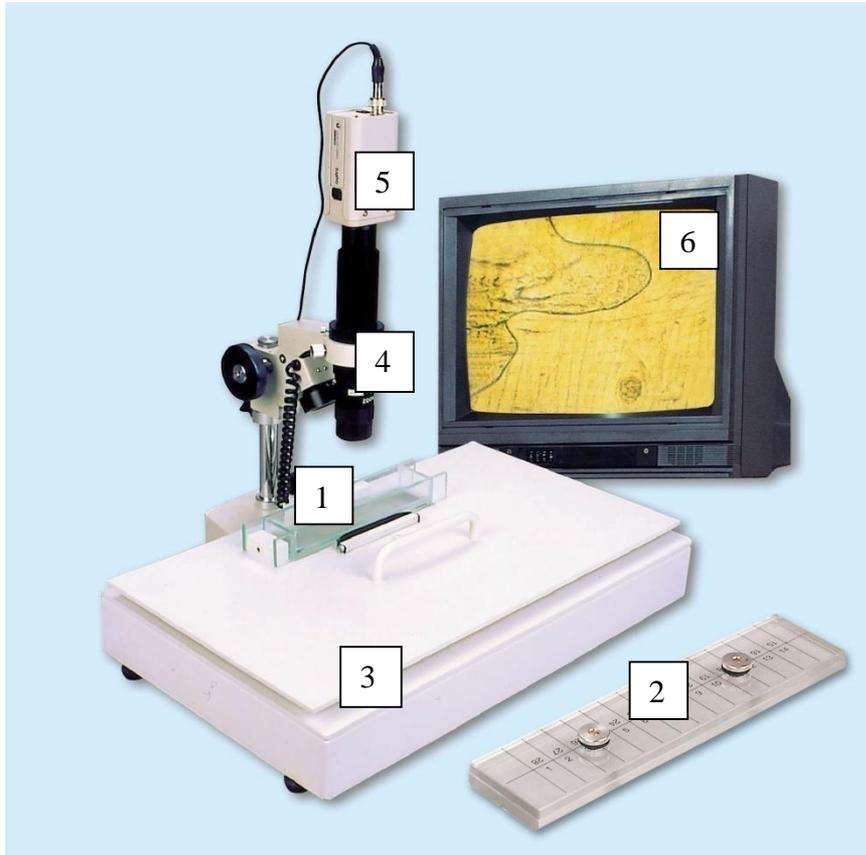


Trichotele

Trichinella examination equipment –
the better way of Trichinella detection

The parts of Trichotele



- 1- Glass bath for digestion method of examination
- 2- Compressor plate
- 3- Examination desk. The path of the sample is forced during the examination, so every mm of the sample is checked.
- 4- Zoom video microscope
- 5- CCD camera
- 6- Monitor (TV, video or computer monitor is required for operation)

Introduction

- The equipment is developed specifically for private and large slaughterhouses and food safety centers.
- The infection with parasite *Trichinella* is very difficult to be discovered in both animals and humans.
- It applies to people with zoonoses, and therefore represents an extremely dangerous illness.
- Symptoms – fatigue, muscle pain, similar to the rheumatic diseases and flu
- When treatment of these diseases do not brings results, perhaps as a last possible thing to consider is trichinellosis.
- Recognition, in many cases has been going on later stages, and as a result, there were already many deaths.

Technology and invention

- To detect the worm *Trichinella*, thanks to the years of research , there was established equipment, which can easily and quickly recognize the *Trichinella* with 100% assurance .
- Device came on the market in Hungary in early 2000.
- „**VIV Europe 2001**” award in Utrecht (Netherlands) in the category of food safety.

Microscope

- XZ-1 type zoom video-microscope.
- The output «C» can be directly connected to the camcorder.
- Special zoom optics with magnification 1:6,5.
- The source of lighting is available from the bottom or top and is carried out using the button with three positions.
- The light power is adjusted continuously from the side of microscope.

Subject Table

- The fixed/forced field of the table makes possible the examination of the samples into 5 mm strips with an overlap.
- Both the compressor plate and glass bath can be attached to the table with clamps.
- The table moves with the help of two buttons located on the top of the mobile part.
- With the tightening up of the blue button located behind the clamps the forced field is disabled and **any point of the sample can be examined.**

Video Camera

- The camera is connected directly to the video stand
- The CCD video camera provides appropriate resolution of the images for both methods of examination - compressor or digestion.

Connecting cable, optional accessories

- The role of connecting cable is to ensure the connection of the television and video and the image transmission. One of the cable pole has an BNC connector and should be connected to the camera. The second pole requires the suitable television sets (eg RCA, Euroscart).
- Any brand of television equipment, screen with 37 cm diameter.

The operating principle of the device, installation, use

- **Principle:** through the optics, the camera picks up a magnified image. With the help of the cable, it is projected to the TV monitor.
- **Putting into operation:** The subject table is connected to the video call stand with 3 circular buffers. In basic position the video stand is placed and fixed in a top position. The video camera is connecting with attachment to the subject table and needs a separate power supply. The camera is joined to the TV monitor. The video channel AV have to be adjusted. The top or down lighting is choosing depending on the method of examination.

The Trichotele equipment developed by ANIVET adopts a new technical method for an easier and more reliable examination.

Advantages:

- **Convenient**
- Because the examination image is shown on the monitor
- **Precise**
- Because the sample is examined in a forced path moving the upper part of the object table
- **Safe evaluation**
- The magnifying is not gradual.
- **The result can be documented**
- Because the whole examination process can be stored on the computer, or DVD receiver.