

TrichinEasy
cod. 90060

&

PLYTricons
cod. 12060



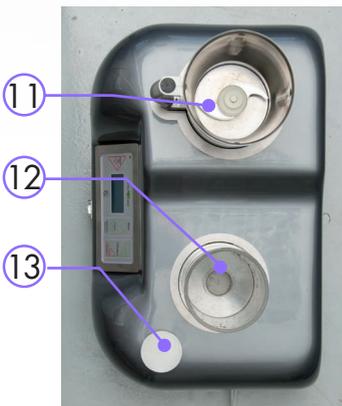
TrichinEasy: Operating instructions manual



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IMPORTANT

Read the instructions for use while carefully observing the illustrations.

Descriptions of the appliance

FRONT VIEW

- 1 - Mixer and Digestion container
- 2 - Filtration cylinder
- 3 - Keyboard
- 4 - Display
- 5 - Prefilter
- 6 - Serial port

REAR VIEW

- 7 - Main switch "on / off"
- 8 - Identifying label
- 9 - Fuses

RIGHT LATERAL VIEW

- 10 - Exhaust pipes

UPPER VIEW

- 11 - Blades
- 12 - Filter holder
- 13 - Dish heater

DISPLAY / KEYBOARD VIEW

- 14 - Led "on"
- 15 - Stand by / reset 5" button
- 16 - Start Filtration button
- 17 - Start Mixer button
- 18 - Stop Filtration button /
Filtration cylinder release 3"
- 19 - Start Digestion button /
Heating / Washing 5"

Descriptions of the appliance

Voltage: 85/250Vac \pm 10% 60/65 Hz

Temperature: from +10°C to +40°C

Max relative humidity: 85%

Note: The electric safety conditions are guaranteed up to a relative humidity of 85%.

Transport and storage

Temperature: from +10°C to +40°C

Max relative humidity: 85%

Atmosphere pressure: from 50 to 106 Kpa

Warnings: This equipment should be connected to an ground socket outlet, DO NOT use adapters, multiple sockets or reducers.

Important: The Company declines all responsibility for damages due to repairs, modifications or combine use with other equipment without permission from our technical personnel.

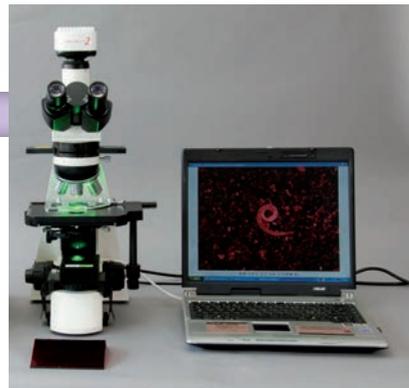
Accessories

Analysis standard kit (**PLYtricons**) includes: HCl, pre-dosed Pepsin, membrane filters, a pair of plastic forceps, dishes and two different reagents for fluorescence staining of the potentially parasites presence.



Optionals

Fluorescence microscope, dedicated PC.



Operating method

WARNING: Before starting the operating method insert the exhaust pipes in a proper liquid waste container.

Sample Mince and Digestion.

Switch on the instrument by the back main switch and verify that the green LED is on and the Display shows "Ready".



Check the proper position of blades inside the Mixer and Digestion container.



If necessary to remove the blades press the "A" button and extract them out.



Weigh the sample and put it in the Mixer and Digestion container in quantity not exceeding 100 g.

Insert the cover with arrow on the handle center.



Close the Mixer and Digestion container cover turning it clockwise.

Check that cover handle is aligned to the container handle.

If the cover is not properly set an alert will show up and the instrument won't operate.

Press the "Mixer" button 2 seconds.
The sample will be minced in a default time.
Check that the sample has been completely minced, if necessary repeat the operation.

WARNING: Don't remove the Mixer and Digestion container until the digestion is completed.

Add in the Mixer and Digestion container 1000 ml of water.

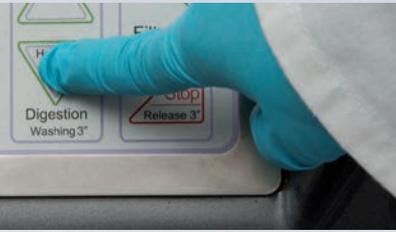
WARNING: Don't press the Mixer button when the Digestion container is filled with water.

Press the "Heating" button. The instrument checks automatically the temperature of the liquid in the Mixer and Digestion container and if necessary starts a heating phase.

Wait that the display shows "Hot".

Add the content of "A" bottle in the Mixer and Digestion container.





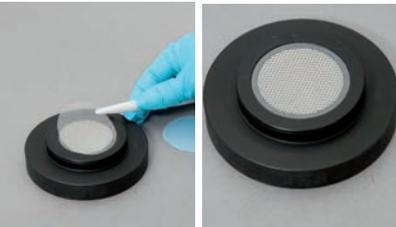
Press the "Digestion" button.



Add the content of "B" bottle (Pepsin 1:10000 NF) through the hole on the Mixer and Digestion cover. The digestion phase starts and the instrument will provide to shake and maintain the digestion liquid temperature until the digestion is completed.



After 30 minutes (best digestion time), the instrument warns the end of digestion by a beeper and the message "Digestion Completed" will appear on display.



Larve isolation

Put the metal filter in the correct position in the center of the holder.

Insert a membrane filter from the "E" container into the filter holder.

Place the stainless steel cover.



Insert the filtration holder with membrane E in the hole (right side of the instrument) then add the cylinder on top of the filter.

Insert the filtration cylinder in the appropriate position as shown and wait for the automatic lock.
The display shows the message "Filter Lock".



Insert the "pre-filter".



Decant the digestion liquid from the Mixer and Digestion container into the Filtration cylinder.

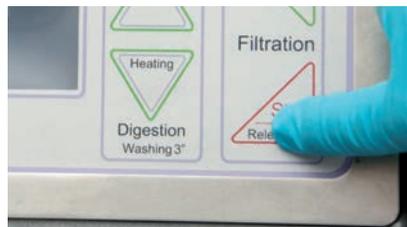


Press the "Start" button to start the filtration.
The time necessary to this phase can take from 5 to 8 minutes according to the density of the digestion liquid.
(If this phase will take more than 8 minutes that means that digestion is not optimal.)

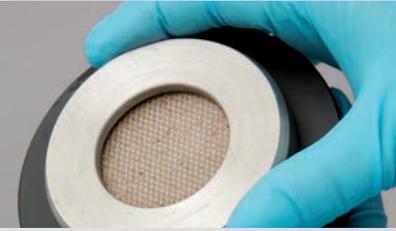


Stop the pump by pressing stop for 1/2 second.

Only after filtration is completed and no liquid is still present in the Filtration cylinder:

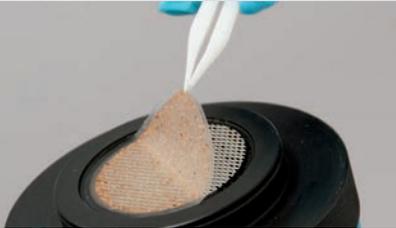


Press the "release" button to free the Filtration cylinder and after the message on display "Remove Filter", remove the Filtration cylinder with its filter holder with in 5".



Remove the filter holder from its housing.

Remove the stainless steel cover from the holder.



Place the membrane filter in a dish available in the PLYtricons kit using the disposable plastic pliers available in the PLYtricons kit.

The membrane filter in the dish is ready to be analyzed by a microscope (trichinoscope or stereo microscope).

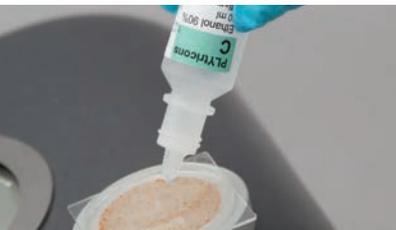
Larve isolation

Place the dish with the membrane filter on the auxiliary heater placed on the right of filtration cylinder.



Add 10 drops from "C" bottle on membrane filter in the dish and wait until the filter is completely dry.

WARNING: At this moment the sample is transparent and cannot be seen on a microscope.



Add 10 drops from the "D" bottle on membrane filter in the dish and wait for a minimum of 15 minutes.



The sample is ready for the fluorescence microscope detection.

The sample processed with staining procedure can be kept for long time at room temperature.

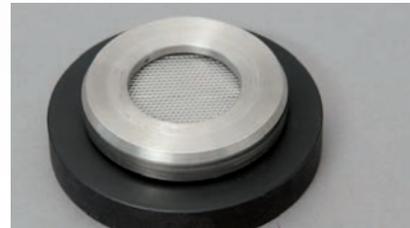
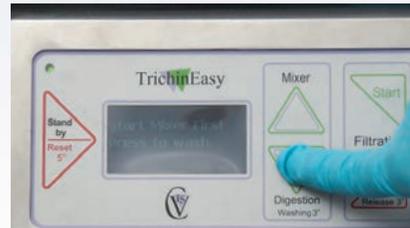
Washing

Decant into the Mixer and Digestion container 1,2 litres of water adding the content of "L" bottle.

Press the heating button until the display says "hot".

Press the "Washing / Heating / Digestion" button 5 seconds, on display will appear the message "Washing" and wait for the end of Washing cycle.

Decant all the liquid of the Mixer and Digestion container into the Filtration cylinder.





After few minutes press the "Filtration" button start. When all the washing solution has been pumped out press the "release" button 3 seconds. Remove the Filtration cylinder and wash it with clean water.



Remove the Mixer and Digestion container and wash it with clean water.



Fuses replacement

Switch OFF the device and disconnect the power cable.

Use a flat-blade screwdriver, turn the fuse holder gently to release the fuse that must checked or replaced.

Pull the fuse holder out and remove the fuse. Replace it with another of the same current rating.

2 FUSES 5 x 20 F2 10 A

Declaration of conformity



Manufacturer: C.T.S.V. s.r.l.
Via Cipro 1
25100 Brescia

Model: TrichinEasy

Technical data: Input Voltage 85/250 Vac \pm 10%
50/60 Hz

Application of Council Directives: - 2006/95/CE (LVD Low Voltage Directive)
- 2004/108/CE (EMC Electromagnetic Compatibility)
- 98/37/CE (Machinery Directive)

Testing Provider: TESEO S.P.A.C.E.
Corso Fleming, 25 - 10040 Druento (TO)

Tests: - Confirmation of conformity to the: Low Voltage Directive 2006/95/CE
- Confirmation of conformity to the: Machinery Directive 98/37/CE

Certificate of conformity to Electromagnetic Compatibility:
EN 61326:1997 + A1:1998 + A2:2001 + A3:2003

Manufacturing year: 2007

I, the Undersigned, hereby declare that the equipment above conforms to the above Directive Standards, when installed in accordance with the manufacturers specifications.

A handwritten signature in black ink, appearing to read 'Armando Roggero', is written in a cursive style.

Armando Roggero
General Manager



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