

Hot Plate Analgesia Meter

General

The MazeRouter hotplate Analgesia Meter has been designed to perform rapid precise screening of narcotic type analgesic drugs (morphine, codeine, etc.) on the animal by the hot plate test.

This method, devised by N.B. Eddy and D. Leimbach evaluates the reaction time of mice which are dropped on a heated surface and thus confronted with a heat stimulus applied to the plantar surface.

When a central analgesic is administered to the animals this reaction time is markedly increased.

Main Features

- ▶ Touch screen micro-processor controller
- ▶ Plexiglass
- ▶ Wireless Remote control to control the experiment from far away
- ▶ Removable hot platform for easy cleaning the surface of plate
- ▶ Temperature control from 20 ~ 80°C with Holding accuracy +/- 1°C
- ▶ Specific models for mice and rat



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The time taken between contacting the heated measuring platform and the appearance of the typical "paw licking reaction" is a measure of the sensitivity of the animal to pain .(plantar test)

The application of the analgesically effective substances increases the latency time by increasing the pain threshold compared with untreated animals.