



ANALGESIA METER (EDDY'S HOT PLATE TYPE)

For testing heat
induced pain in mice & rat



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The Hot Plate Analgesia Meter performs rapid & precise screening of analgesic drug properties on small laboratory animals.

Orchid's Hot Plate Analgesia Meter has been developed for both hot plate tests pain test. Pain sensitivity to heat is assessed by placing the animal on the top of aluminium plate and starting the timer. The operator stops the timer at the instant the animal lifts its paws from the plate, reacting from discomfort. The front panel timer displays the latency to react, a measurement of the animal's resistance to pain.

Features :

- Plate temperature can be held at a set point between 5°C above ambient to 60°C ($\pm 0.2^\circ\text{C}$)
- Remote foot-switch controls the test start / stop allowing rapid Hands-free experiments.
- Instrument has provision to add max sequence numbers, auto experiment number and animal sex.
- High temperature stability & Uniform surface heat distribution.
- A built-in timer activated by an external foot switch allows the precise measurement of the reaction time (0.1 Sec. Resolution)
- Precise and reproducible results.
- Cut off timer to avoid damage to animal.
- Top LID Sensor to indicate lid is open and thereof avoiding temperature fluctuations

DC Power Unit with foot switch

System Specification & Models :

Model	Control Unit Dimensions mm (LxWxH)	Plate Dimensions mm (LxWxH)	Animal Enclosure Dimensions mm (LxWxH)	Temperature range ° C	Reaction Time Seconds
EH-01	300x335x128	207x207x10	220x220x250	5°C above ambient to 60°C (± 0.2° C)	Digital Timer Resolution of 0.1s

Ordering Information :

Model	Certifications	Power Requirements	Accessories
EH-01	CE Compliant	220/230V AC 50Hz 110/120V AC 50-60Hz*	Control Panel With Acrylic chamber and lid, Foot switch

* Needs to be specified in order information

Software Report Formats :

Experiment Report

2017-11-16

User Name: admin Device Name: Hot Plate Analyzisa Meter
 Experiment no: AA20 Device ID: HP0001
 Maximum sequence: 008 Cut off time: 0032.0
 Set Temperature: 0055.0
 Title: enter title here
 Comment: enter comment here

Sequence no	Log Date	Log Time	Animal ID	Sex	Plate Temp	Ambient temp	Response time
5001	16-11-17	15:41:21	033	M	0574.9	29	0004.8
5002	16-11-17	15:41:41	033	M	0574.9	29	0009.2
5003	16-11-17	15:41:57	033	M	0574.9	29	0009.8
5004	16-11-17	15:42:11	033	M	0574.9	29	0017.0
5005	16-11-17	15:42:21	033	M	0574.9	29	0001.2
5006	16-11-17	15:42:30	033	M	0571.0	29	0004.7
5007	16-11-17	15:42:46	033	M	0571.0	29	0007.9
5008	16-11-17	15:42:57	033	M	0571.0	29	0008.1

Response time V/s Sequence Number

Calibration Report

Device Id: HP0001
 Report No: 10
 User Name: orchid
 Date: 12-11-17
 Time: 11:47:34
 Calibration: -001.2
 Result: Calibration done successfully

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* Note : Orchid's continuing product development makes specifications subject to change without prior notification.

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Contact US

ORCHID SCIENTIFIC & INNOVATIVE INDIA PVT.
LTD. B-59, M.I.D.C., Ambad, Nashik-422010, India

Tel.: +91253-2387600, 2382525, 2381515

E-mail: info@orchidscientific.com

orchidscientific@gmail.com

Website: www.orchidscientific.com



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