

Small Animal Rotarod (mice and Rat)

General

The MazeRoter Rotarod is used to assess the effect of drugs on the motor coordination or fatigue resistance on mice and rats using one unit in a safe and humane way. The animals are placed on textured drums to avoid slipping . When an animal drops onto the individual sensing platforms below, test results are recorded.

when a rat (or mic) falls off its cylinder section on to the plate be-low, the plate trips thereby recording the animal's endu-rance time in seconds . A large, very readable backlit graphic display shows the actual angular speed (RPM). At the end of a run, the display shows for each animal the running time and the instrument rotation speed at the time that animal fell off.

The RotaRod is controlled by an advanced microprocessor which provides precise timing control and accurate speed regulation , speed range is 2 ~ 45 RPM. Rotation can be electronically set at a constant speed by toch screen display on the front panel . Alternatively , acceleration rate may be selected at a defined time .



Main Features

- ▶ Very stable with metal framework
- ▶ Touch screen micro-processor controller
- ▶ Silent operation, even at high regimes
- ▶ 1 ~ 45 RPM
- ▶ accurate speed regulation
- ▶ selectable acceleration rate
- ▶ Micro-switch detection of fall
- ▶ Individual lane timers
- ▶ Automatic recording of latencies to fall and rotation speed

Applications:

Aging
Fatigue
Exercise
Motor activity
Oxidative stress
Drug screening
Parkinson disease
Huntington disease
Alcohol dependence
Improvement of sportive performances
Respiratory metabolism (O₂/CO₂)
Diabetes ,
Ischemia ,
Osteopenia / osteoporosis...