

# Rotarod

for motor coordination and fatigue resistance in rodents



## PRODUCT OVERVIEW

The Panlab RotaRod provides an easy way to test the effects of drugs, brain damage, or diseases on motor coordination or fatigue resistance in rodents.

Basically, the animal is placed on the roller lane of the Rotarod and the timer is started. When the animal drops safely into its own lane, the time latency to fall (minutes and seconds) and rotation speed are automatically recorded. The data can be read on the display and/or send to a PC for storage. A removable upper separator is included for rats to prevent interference between animals running in adjacent lanes.

The RotaRod is controlled by an advanced microprocessor which provides precise timing control and accurate speed regulation. Rotation can be electronically set at a constant speed using a dial on the front panel. Alternatively, acceleration rate may be selected at a defined time.

The Panlab RotaRod is also provided with a computer interface enabling easy exportation of data through RS 232 (USB) serial port in a format that is compatible with Excel.

## Key Features

- *Micro-switch detection of fall*
- *Individual lane timers*
- *Constant speed and fixed acceleration rate*
- *Automatic recording of latencies to fall and rotation speed*
- *Mice and rats combined Rotarod available!*
- *Computer interface optional with included software*

## APPLICATIONS

Motor phenotyping, Drug screening, Parkinson disease, Huntington disease, Alcohol dependence, Aging





## MEET YOUR NEEDS!

Exists in different configurations: available for mice, rats, or with an interchangeable drum for both mice and rats.



- For 5 mice
  - Base unit dimensions: 362 (W) x 240 (D) x 400 (H) mm
  - 1 drum (250 mm diameter) composed by a rod (30 mm diameter) and 5 lines (50 mm wide)
  - Built-in RS 232 (USB) port for data transfer of PC (SeDaCom Software included)
- For 4 rats
  - Base unit dimensions: 362 (W) x 240 (D) x 400 (H) mm
  - 1 drum (250 mm diameter) composed by a rod (60 mm diameter) and 4 lines (75 mm wide)
  - Built-in RS 232 (USB) port for data transfer of PC (SeDaCom Software included)
  - Removable Hood (150 mm height) avoiding interference between animals running in adjacent lanes
- For 4 rats or 4 mice
  - Base unit dimensions: 362 (W) x 240 (D) x 400 (H) mm
  - Built-in RS 232 (USB) port for data transfer of PC (SeDaCom Software included)
  - LE8580 drum for rats (250 mm diameter) composed by a rod (60 mm diameter) and 4 lines (75 mm wide)
  - LE8590 drum for mice (250 mm diameter) composed by a rod (30 mm diameter) and 4 lines (50 mm wide)
  - Removable Hood (150 mm height) avoiding interference between animals running in adjacent lanes

### SPECIFICATIONS

<i>Base unit characteristics</i>	<i>Perspex, arnite (lanes), 110V or 220V, 50/60Hz</i>
<i>Constant speed mode (RUN)</i>	<i>Speed: 4-40 RPM</i>
<i>Acceleration mode (ACC)</i>	<i>4-40 RPM in an acceleration time of 30 seconds (standard procedures) and also 1, 2, 5, or 10 minutes</i>
<i>Certifications</i>	<i>CE Compliant</i>

### ORDERING INFORMATION

LE8200	76-0237	Accelerating Rota-Rod for 5 mice including SeDaCom Software
LE8300	76-0238	Accelerating Rota-Rod for 4 rats including removable hood and SeDaCom Software
LE8500	76-0239	Accelerating Rota-Rod for 4 rats or 4 mice including LE8580 and LE8590 drums, removable hood and SeDaCom Software
LE8580	76-0373	4 Rats drum for LE8500
LE8590	76-0374	4 Mice drum for LE8500
<b>OPTION</b>	LE7000	76-0114 Thermal Printer

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