

Rotarod

TO EVALUATE DRUG EFFECT ON MOTOR COORDINATION, BALANCE AND MOTOR LEARNING IN RODENTS

The Rotarod test is widely used to evaluate drug effects on motor coordination, balance, and motor learning in rodents. The principle of this test is that rats or mice are first trained to walk on a rod rotating at a certain speed. Once the animals have learned this, the effect of a test-compound on their motor performance is evaluated. Animals experiencing impaired motor coordination are unable to cope with the rotating rod and will drop off when the rotation speed exceeds their motor coordination capacity. When the animal drops from rod safely into its own lane, the time latency to fall is automatically recorded. Orchid's 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 (2 to 60 RPM) using a dial on the front panel.



Designed To Study Drug Effects On Motor Coordination, Balance, And Motor Learning In Rodents.



FEATURES:

- The same instrument can be used for mice as well as rat just by changing the rotor
- Five Lanes
- Mechanical detection of fall
- Individual lane timers (0-9999.9s) with resolution of 0.1s
- Electronic rod speed adjustment- constant speed (2 to 60rpm)
- Software for real time data transfer
- Easy replacement of rotor

SYSTEM SPECIFICATION AND MODELS:

Specifications	Mode
	RR 01
Number of lanes	Five
RPM	2 to 60 RPM
Timer	0-9999.9s (resolution-0.1s)
Rotor specifications	Mice rotor- 30mm diameter / Rat rotor- 60mm diameter
Lane width	75 mm
Height to fall	For Mice: 285mm /For Rat: 300mm
Display	LCD
Material of composition	Methacrylate, Aluminum
Certifications	CE Compliant
Power requirements	220/230V AC 50Hz / 110/120V AC 50-60Hz*
Overall Dimensions (L x W x H)	570mm X 300mm X 590 mm


*Needs to be specified in order information

ORDERING INFORMATION:

Model	Accessories
RR 01	<ul style="list-style-type: none"> • Basic instrument-1 • Mice rotor-1 • Rat rotor -1 • Tools for assembling • Software for data transfer • RS 232 Cod-1 • RS232 to USB convertor-1

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

SOFTWARE REPORT FORMATS







Experiment Report

Reading Summary From : 2017-12-01 15:13:51 To : 2017-12-25 15:13:51

Time	Compartment 1		Compartment 2		Compartment 3		Compartment 4		Compartment 5	
	Time	RPM	Time	RPM	Time	RPM	Time	RPM	Time	RPM
13/12/17 17:22:31	8.30	16.00	8.50	16.00	8.70	16.00	9.00	16.00	9.20	16.00
17:23:52	38.60	16.00	39.10	16.00	43.60	16.00	43.90	16.00	44.20	16.00
14/12/17 14:05:30	794.90	26.00	811.10	26.00	113.60	26.00	814.60	26.00	122.70	26.00
14:05:32	794.90	26.00	811.10	26.00	113.60	26.00	814.60	26.00	122.70	26.00
14:05:36	794.90	26.00	811.10	26.00	113.60	26.00	814.60	26.00	122.70	26.00
14:06:33	794.90	26.00	0.00	26.00	117.40	26.00	814.60	26.00	122.70	26.00
14:07:55	5.30	26.00	0.00	26.00	0.00	26.00	0.00	26.00	0.00	26.00



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