



Grip Strength Meter for Mouse

Cat. No. 47106

General

This Grip Strength Meter measures forelimb grip-strength in rodents. The effects of drugs, toxins, muscle relaxants, disease, ageing or neural damage on muscle strength may be assessed.

The animal is placed over a base plate, in front of a grasping bar (either T-shaped or trapeze-shaped), whose height is adjustable. The bar is fitted to a force transducer connected to the Peak Amplifier.

When pulled by the tail, the animal grasps at the bar; rodents instinctively grab anything they can to try to stop this involuntary backward movement, until the pulling force overcomes their grip strength.

After the animal loses its grip on the grasping bar, the peak preamplifier **automatically stores the peak pull-force achieved by the forelimbs** and shows it on a liquid crystal display.



With grasping-BAR, TRAPEZE or GRID

TO ASSESS THE FORCE REQUIRED TO MAKE A MOUSE OR A RAT RELEASE GRIP

Main Features

- analogue output for force curve display
- stand-alone peak amplifier and continuous reading mode
- grasping-bar and grasping trapeze (grid optional)
- a force transducer of adjustable height
- base plate of black sand-blasted Perspex

General

The instrument basically consists of a base plate of black sand-blasted Perspex, complete with upright and open-side boss-head to hold a force transducer at adjustable height.

The 47106 is similar to the rat model, but the grasping trapeze is dimensioned for the mouse and the transducer (47105-003) sensitivity is adequate to test the mouse.

Peak Preamplifier

Either the Mouse and the Rat transducer may be connected to the same Peak Amplifier 47105-001.

The display automatically shows the grip force expressed in grams, when testing a rat, and in gram decimals when operating with the mouse.

Data Acquisition

The data supplied by the peak amplifier are available in digital and analog form. The waveform of the pull can be externally recorded, or can be further processed via analog data acquisition systems.

A BNC cable is supplied with the standard package, to connect the 47105-001 to our DataCapsule or to digital recorders of other make, for the recording of force against time.

Ordering Information

47106 Grip Meter for Mouse, complete with following standard accessories:-

47105-001	Peak Amplifier, incorporating a digital display
47105-003	Force Transducer assembly for mouse
47105-004	Perspex Plate with 10mm diam. upright
4003	Open-side Boss Head
47105-302	Instruction Manual
47105-322	T-shaped bar
47105-324	Trapeze for Mouse
E-WP008	Mains Cable
E-WP019	BNC Connection Cable

Bibliography

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