

anxiety & depression

Black and White Test for Evaluating Anxiety



Previous



Next



Section
Table of
Contents



Main
Table of
Contents



Product
Index



Search



WWW
Home



Contact
Us



CE



Key Features

- Compartments with independent and highly contrasted illumination
- Associated with weight transducer technology for optimal animal detection
- Easy to clean between trials
- Easy connection to a PC through RS-232 port

Parameters Measured

- Total time spent in each compartment latency to the first change of compartment (regardless to the animal initial position)
- Number of changes between the black and white compartments
- Total duration of the experiment

Components Included

- Experimental chamber
- Cables and connectors
- Instruction manual
- Set of spare fuses
- 2 year warranty

Options

- PPCWIN Software to control up to 8 automated boxes simultaneously

The Panlab/Harvard Apparatus Black and White Box allows easy and quick evaluation of an animal's anxiety as reflected in their behavior. The test identifies behavioral modifications resulting from pharmacological agents. The Black and White Box assesses the animal's displacement in two compartments with different sizes, color, and illumination.

The Panlab/Harvard Apparatus experimental box, constructed of Perspex, is composed of a small black compartments and a big white compartment separated by a connecting gate. Each compartment has its own removable Perspex floor of the same color of the respective walls and 90 X 90 mm sectors delimited by lines. The compartments are independently illuminated: the white one with a 100 W white bulb and the black one with a 40 W red bulb. Both bulbs are 370 mm from the floor of the box.

The Panlab/Harvard Apparatus Black and White Box can be supplied with a weight transducer system for automated animal detection and photocell beams for evaluation of general activity during the test. The automated experimental chambers (up to 8) are associated to the PC-based control software PPCWIN for data storage and analysis.

Order #	Model	Product
PY2 76-0007	LE810	Experimental Chamber for Mouse
PY2 76-0008	LE816	Automated Experimental Chamber for Mouse: with Weight Transducer
PY2 76-0009	LE812	Experimental Chamber for Rat
PY2 76-0010	LE818	Automated Experimental Chamber for Rat: with Weight Transducer
PY2 76-0011	PPCWIN	Software for Chamber Control and Data Analysis (8 Units)

Citations

Lopez-Aumatell R et al (2007) Fearfulness in a large N/Nih genetically heterogeneous rat stock: Differential profiles of timidity and defensive flight in males and females. *Behav. Brain Res.* 188(1):41-55 (rat, Spain)

Gimenez-Ilort L et al. (2002) Mice lacking the adenosine A1 receptor are anxious and aggressive, but are normal learners with reduced muscle strength and survival rate. *Eur. J. Neurosci.* 16(3): 547. (mice, Spain, Sweden)

