

## Automatised Tail Suspension Test (BSTST2CA)

LF0818B



This test allows for fast evaluation of drugs (anti-depressants, sedatives) psychotropic effects. The measuring principle is based on the energy developed by mice trying to escape from their suspension. During the test, the movements of the mice are analysed in terms of force, energy and power developed over time. PANLAB presents a completely automatised test, including the suspension cages (3 mice per cage and up to 2 sets of cages) and the software to run, record, analyse and replay the experiments.

### Software BSTST2LOG:

Running under Windows XP for added reliability, the software is flexible for the researcher and user friendly.

- Just 1 screen is needed to set up all the parameters (number of animals, thresholds, start of measuring period, end of measure ...).
- "Randomisation" module to define the positioning of the different animals in their groups.
- During the test: Bargraph displays energy and realtime computation of results.
- Results: immobility time, energy value, power during the mobility period. They are displayed on graphs and numerical tables. Results are either printed or stored in .txt or.xls files formats.
- Experiment directory is created automatically to store the different files relating to the experiment. Original Data files are saved and protected as GLP compatible.
- Replay of past experiments is always possible, allowing for the tests of different parameters to be tested.
- It is also possible to discard the result of a particular animal (for example if the subject falls down during the test), in such a case the traceability and the experiment would be secured.

