



**STANDARD OPERATING PROCEDURE**

Updated: 01-02-2022 Valid upto 01-08-2022

# DIGITAL ROTAROD APPARATUS

**Function: To study the muscle relaxant activity.**

## **Standard Operating Procedure**

1. Turn on the Rotarod apparatus.
2. Training phase
3. Training trial 1(t1):place three mice from the same cage/strain on lanes 1,3 and 5(i.e.leaving an empty lane between two mice)
4. Try to have the mice on the rod walking forward to keep their balance. The rod is initially rotating at 4rpm constant speed to allow positioning of all the mice in their respective lanes.
5. Keep their balance at 4rpm constant speed for 60sec.
6. It consists of three trials separated by 10min inter-trial intervals(ITI).
7. Training trial 2(t2):repeat procedure as t1.
8. Training trail 3(t3): repeat procedure as t1.
9. Repeat trial 3 once if a mouse falls off the rod before 60sec cut off ( not more than 4 trials at maximum).
10. All the mice have to stay on rod at 4rpm for 60sec before moving on the test.
11. Leave at least a 30min break between training and test phases.Test phase:It consists of three trials separated by 15min inter trail intervals(ITI).It is possible to run a total of nine mice (three cages ,3mice per cage ) consecutively in one trial before moving to the next.
12. Set apparatus to accelerating mode from 4 to 40rpm in300sec.
- 13.The apparatus will indicate “accelerating waiting” of 4rpm constant speed until the start button is pressed.

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