

FEB 21, 2024

OPEN BACCESS



Protocol Citation: daniel.dautan, Per Svenningsson 2024. Rotarod (40 RPM and 20 RPM with docking) . protocols.io https://protocols.io/view/rotarod-40-rpm-and-20-rpm-with-dockingc9azz2f6

License: This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working We use this protocol and it's working

Created: Feb 15, 2024

Last Modified: Feb 21, 2024

PROTOCOL integer ID: 95289

Rotarod (40 RPM and 20 RPM with docking)

daniel.dautan¹, Per Svenningsson¹

¹Karolinska Institute Stockholm



Eileen Ruth Torres Weill Cornell Medicine

ABSTRACT

This protocol describes motor function testing in mice using the rotarod by the Svenningsson lab.

Two options for the protocol are included: 1) 40 RPM constant speed after habituation and 2) 20 RPM with docking.

MATERIALS

Mouse Rotarod (Ugo Basile 47650) 50% ethanol

Funders Acknowledgement:

Aligning Science Across Parkinson's Grant ID: 020608

1	Naive mice were placed in groups of 5 on the rotatord (Ugo Basile 47650) for 2-3 minutes for habituation.
2	Following habituation, the rotarod program was initiated and lasted for a maximum of 2 minutes.
	STEP CASE
40 RPM 4 steps	
3	Following habituation, the rotarod program was initiated for 40 RPM and lasted for a maximum of 2 minutes.
4	The time to fall as defined with the moment the mice fall in the receptacle or the moment the mice turn around the rotor more than 5 consecutive times was selected.
5	The apparatus was thus cleaned thoroughly between each group with 50% ethanol followed by water.
6	The test was repeated 3 times with at least 6h between each trial.