Aug 21, 2025

Cylinder test in rats

Forked from Cylinder test in rats

In 1 collection

DOI
https://dx.doi.org/10.17504/protocols.io.14egnypmzv5d/v1

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Protocol Citation: Eduard Bentea, María Sanchiz Calvo, Veerle Baekelandt 2025. Cylinder test in rats. **protocols.io https://dx.doi.org/10.17504/protocols.io.14egnypmzv5d/v1**

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

Created: June 24, 2025

Last Modified: August 21, 2025

Protocol Integer ID: 220875

Keywords: ASAPCRN, cylinder test in rat, cylinder test in rats protocol, cylinder test, nigrostriatal dopaminergic pathway, test, rats protocol, animal models with unilateral lesion, rat, asymmetry in forelimb use

Funders Acknowledgements:
ASAP (Aligning Science Across Parkinson's)

Abstract

Protocol for performing the cylinder test in rats. The cylinder test evaluates asymmetry in forelimb use, and can be used in animal models with unilateral lesions of the nigrostriatal dopaminergic pathway.

Troubleshooting

Test

1h

1 Bring cages to the behavioral room for at least 01:00:00 prior to the test for habituation

1h

2 Place each rat in a glass cylinder (20-cm wide), surrounded by mirrors to allow a full 360 degree view. Videotape from the front for 00:05:00 or until the rat performs a minimum of 20 weight-bearing forepaw contacts with the cylinder walls.

5m

3 Perform blinded analysis from the recorded videos of the number of contralateral forepaw contacts, and express these as a percentage of total forepaw contacts.