May 22, 2024

Bedding Test

DOI
dx.doi.org/10.17504/protocols.io.n2bvj3ko5lk5/v1

daniel.dautan daniel[1,2], Per Svenningsson[1,2]

[1]Department of Clinical Neuroscience, Karolinska Institutet, 171 76 Stockholm, Sweden;
[2]Aligning Science Across Parkinson's (ASAP) Collaborative Research Network, Chevy Chase, MD 20815, USA

Jacquelyn Haytayan
Weill Cornell Medicine

DOI: https://dx.doi.org/10.17504/protocols.io.n2bvj3ko5lk5/v1

Protocol Citation: daniel.dautan daniel, Per Svenningsson 2024. Bedding Test. **protocols.io https://dx.doi.org/10.17504/protocols.io.n2bvj3ko5lk5/v1**

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

Created: February 22, 2024

Last Modified: September 23, 2024

Protocol Integer ID: 95639

Keywords: ASAPCRN, behavior, fine motor skills, nigrostriatal sensorimotor function in mice, nigrostriatal sensorimotor function, bedding test, mice

Funders Acknowledgements:
Aligning Science Across Parkinson's
Grant ID: 020608

Abstract

Used to assess nigrostriatal sensorimotor function in mice. Based on the Deacon 2006 protocol.

Materials

Cotton nestlets

Troubleshooting

1 Transfer the mice as single cage into a “Green line” cage (Techniplast, USA).

2 Provide few pellet of food (Standard diet, SDS, R1/CRM/R3) (around 2-3 pellets for a total of 5g) as well as water ad libitum.

3 Place a 5 × 5 cm cellulose paper tissue folded in the right corner of the cage.

4 Place the cage in a ventilated rack with temperature, humidity and light control for 48h.

5 At the end of the 48h check the animal cage and take a picture.

6 Score the bedding as follow:

0. The mice did not touch the paper square.
1. The mice unfolded the paper square but did not tear it up.
2. The mice unfolded and started to tore up <10% of the paper square.
3. The mice tore up the paper square <50%
4. The mice tore up the paper square, but the bedding is not perfect.
5. Perfect bedding

Protocol references

Deacon, Robert MJ. "Assessing nest building in mice." *Nature protocols* 1.3 (2006): 1117-1119.