

JAN 22, 2024

# OPEN ACCESS



#### DOI:

dx.doi.org/10.17504/protocols.io. q26g7pjo9gwz/v1

**Protocol Citation:** Ian N Krout, Tim Sampson 2024. Sticker Removal. **protocols.io** https://dx.doi.org/10.17504/protocols.io.q26g7pjo9gwz/v1

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: Jan 20, 2024

# Sticker Removal

Ian N Krout<sup>1</sup>, Tim Sampson<sup>1</sup>

<sup>1</sup>Emory University

ASAP Collaborative Research Network

Ian Krouts Folder



Ian N Krout

#### **ABSTRACT**

The sticker removal test is a form of adhesive removal task assessment that is used by our lab to asses sensory stimuli and motor tasks in mice. Simply, an adhesive substance is placed on the nose of the mouse which is sensed, then removed by the mice using their forepaws<sup>1</sup>. Difficulties in these tasks are commonly attributed to either sensory perturbations or difficulty in initiating or performing movement<sup>2</sup>. PD models (Parkin-KO, DJ-1, and Thy1-aSyn) mice show an increase in the time required to remove the adhesive sticker compared to controls<sup>2</sup>.

#### **MATERIALS**

- 1. Tube cap labels -> <a href="https://www.fishersci.com/shop/products/label1-2in-circle-assortrl5000/501531730#?keyword=circle%20labels">https://www.fishersci.com/shop/products/label1-2in-circle-assortrl5000/501531730#?keyword=circle%20labels</a>
- 2. Tweezers
- 3. Stopwatch
- 4. Empty rodent cage
- 5. 70% EtOH



Last Modified: Jan 22, 2024

PROTOCOL integer ID: 93855

**Keywords:** ASAPCRN

### **Funders Acknowledgement:**

Aligning Science Across Parkinson's Grant ID: ASAP020527

# **Acclimation**

- 1 Bring mice up from vivarium in their home cage to acclimate for at least 1h prior to sticker removal assessment.
- 2 Randomize the order of mice for assessment and record this order in your lab notebook

## **Assessment**

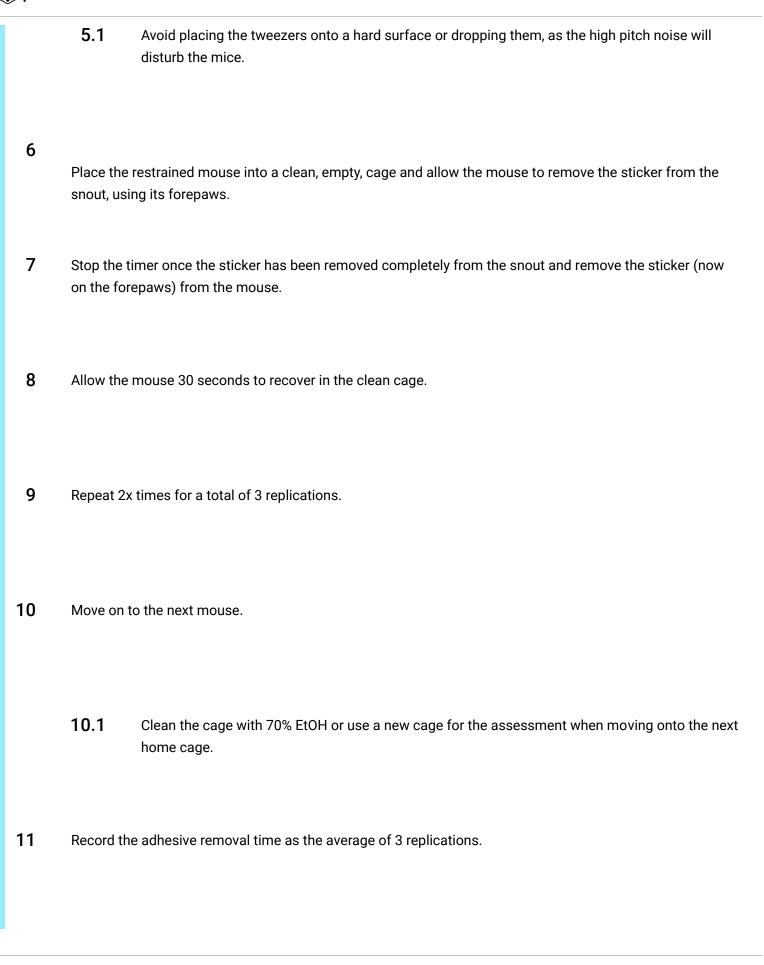
3

With one hand use the tweezers to pick up one sticker, allowing it to sit on a single prong with the adhesive side freely visible.

4

With the free hand grab one mouse and manually restrain with a "scruff technique" immobilizing the head and forepaws.

Using the tweezers gently press the adhesive side of the sticker onto the snout of the restrained mouse, gently putting down the tweezers and picking up a stopwatch.



Oct 22 2024

