Upload image

Jul 23, 2020

Protocol for manual von Frey

Nathan Rizo[1], Lauren Smith[1], Olivier George[1]

[1]University of California, San Diego

1 Works for me This protocol is published without a DOI.

George Lab
Tech. support email: olgeorge@ucsd.edu

Nathan Rizo

PROTOCOL CITATION

Nathan Rizo, Lauren Smith, Olivier George 2020. Protocol for manual von Frey. **protocols.io** https://protocols.io/view/protocol-for-manual-von-frey-ba36igre

CREATED

Jan 08, 2020

LAST MODIFIED

Jul 23, 2020

PROTOCOL INTEGER ID

31582

Procedure

1 Place netting on surface set: (x2)

2 Place clear boxes on top of netting (4 boxes x2 = 8)

3 Place one animal per box, leave animals in box for 10 minutes to stabilize to the environment

4 Label your experimental sheet (L/R, X/), Name/Date/Experiment/Rats)

5 Choose your starting filament handle (example: 4.93)

6 Measure the left paw then the right paw
a. The animal is facing away from you - the left paws your left
b. Use only the hind paws
c. Place the needle in the center of the paw

d. Make sure the needle goes through the center of the grid:

7 Apply the filament just long enough for the animal to respond (1-2 seconds)

8 Record an **X** for no response or an **0** for response
a. A response is the animal withdrawing the paw upon applying the filament
b. Start at the BOTTOM LEFT of the cell on the record sheet for left paw (bottom right for right paw)

9 IF NO RESPONSE - move down to the next cell, increasing the handle # (example: 5.07) and repeat steps 6-8
a.

4.93	X
5.07	

10 IF RESPONSE - move up to the previous cell, decreasing the handle # (example: 4.93)
a.

4.93	X
5.07	0

11 Keep going until you have two non-responses followed by two responses in sequential cells
a.

4.93	XX
5.07	00

12 Once you have two non-responses followed by two responses in sequential cells for both left and right paws that animal is done, move on to the next animals

13 Once all animals are done, return them to their home cage and clean the net and work surface

14 Return all CLEANED equipment where you found it