Humaneway LaboPal™ Full Body Mouse Simulator

Instruction Manual

For Research and Laboratory Training Use Only

Version 1.0
July 2026

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Package Contents

Full Body Mouse Simulator × 1

Training Applications

The following training procedures can be performed using the Humaneway LaboPal Full Body Mouse Simulator:

- Handling (Retaining, Scruffing, Carrying) Training
- Oral Gavage Training
- Subcutaneous Injection Training
- Intraperitoneal (IP) Injection Training

Instructions for Use

The following procedures are provided as examples of training methods. Users may adapt the training procedure as appropriate for their specific protocols and objectives.

Handling Training

1. **Hold the base of the tail**
   Place the simulator on a cage lid or similar surface.
   Gently grasp the base of the tail with your dominant hand and lift it slightly.
2. **Position the mouse**
   Gently pull the tail toward yourself.
3. **Scruff the mouse**
   Using the thumb and index finger of your free hand, firmly grasp the loose skin from the neck to the shoulders.
4. **Secure the tail**
   With the same hand that is grasping the skin, hold the tail between your middle and ring fingers or pinky.

Oral Gavage Training

Restraining the Mouse

1. Hold the base of the tail with your dominant hand and place the simulator on a wire cage lid or similar surface.
2. As the body naturally stretches forward, firmly grasp the loose skin from the neck to the back using the thumb and index finger of your opposite hand.
3. Use the remaining fingers to secure the tail and lower body so that the head and torso remain aligned in a straight line.

Inserting the Feeding Needle

1. Insert the feeding needle slowly through the corner of the simulator's mouth.
2. Guide the needle along the roof of the mouth toward the esophagus.

Subcutaneous Injection Training

Important: Do not inject liquids during subcutaneous injection training, as liquid injected beneath the skin cannot be removed. Training should be performed with an empty syringe.

1. **Restrain the full body mouse simulator**
   Secure the simulator firmly to prevent movement.
2. **Select the injection site**
   Typical sites include the dorsal region or the inguinal area, where the skin is loose and out of reach from the animal's mouth.
3. **Lift the skin**
   Gently pinch the skin between the thumb and index finger to create a triangular "tent" space.
4. **Insert the needle**
   Insert the needle into the base of the lifted skin at an angle of approximately 15–30°.
5. **Inject**
   Slowly push the syringe plunger to inject.

Intraperitoneal (IP) Injection Training

Restraining the Mouse

1. Hold the tail of the mouse simulator with your dominant hand and place it on a wire cage lid or similar surface while gently pulling backward.
2. Firmly grasp the loose skin from the neck to the back of the simulator with your thumb and index finger of the opposite hand.
3. While maintaining this grip, secure the tail with your ring finger or pinky and hold the simulator with its abdomen facing upward.
4. Tilt the head of the simulator slightly downward (or backward) so that the abdominal organs shift cranially, reducing the risk of accidental puncture.

Injection Procedure

1. Select an injection site approximately 5 mm lateral to the abdominal midline and slightly cranial to the inguinal region.
2. Disinfect the site with 75% alcohol.
3. Insert the needle approximately 5 mm into the abdominal cavity at an angle of approximately 45°, directing the needle toward the simulator's head, and inject the solution.

Maintenance After Training

1. If liquid has been injected into the internal cavity, flush the interior by injecting clean water through the mouth using a syringe. Gently press the abdomen to expel the water. Repeat this process several times.
2. Liquid cannot be completely removed from the internal cavity.
   If the simulator will not be used for an extended period, inject a small amount of alcohol into the cavity before storage.

Precautions

1. Do not inject liquid between the skin and the internal organs. Liquid trapped in this space cannot be removed.
2. Do not inject oil-based ink into the simulator, as it may permanently stain the material. If colored liquid is required, use a dilute water-based ink.
3. Do not make long cuts with wide instruments such as lancets, as this may tear the silicone surface.
4. The simulator is designed for repeated use. However, repeated needle punctures may gradually enlarge the puncture holes.
5. If the skin separates from the internal organs, reattach it using a silicone-compatible adhesive (such as Aron Alpha® or an equivalent cyanoacrylate adhesive suitable for silicone).

Materials

Body: Silicone
Skull and Limbs: PLA
Tail Skeleton: Polystyrene

Item Specification

Body Length: Approx. 90 mm
Body Height: Approx. 36 mm
Body Width: Approx. 32 mm

Tail Length: 90mm

Weight: Approx. 29g

Components

- Mouse Torso Simulator × 1
- Forelimbs × 2
- Hind Limbs × 2

Manufacturer Information

Manufacturer: Hundred Medical, Inc.
Address: 4-12 Nishimiyamae Otsukimachi, Koriyama, Fukushima 963-0201, Japan

Country of Origin: Made in Japan

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