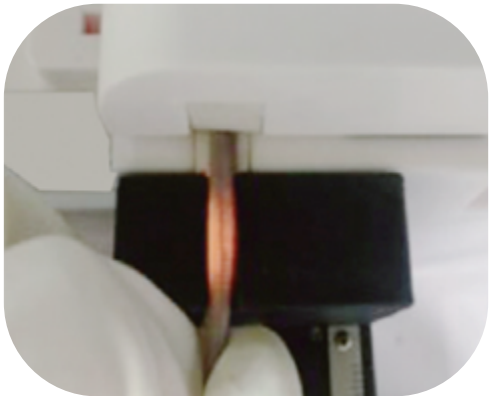
Mouse Tail Vein Injection Visualizer

Intravenous injection into the mouse tail is a challenging task that requires skill, practice, and patience. During experiments, multiple failed attempts can lead to frustration and injuries to the animal. It is widely agreed that there are no shortcuts to mastering tail vein injection. The key to success lies in repeated practice, honing the technique, and gaining confidence. However, even with confidence, it is still difficult to achieve complete certainty.

The challenges mainly arise from three factors:
1) the firmness of the animal's restraint
2) the fullness of the tail veins
3) the direction of the needle when entering the vein.



The Tail Vein Injection Imaging Device solves these problems: First, using an animal restrainer, the animal can be loaded quickly, firmly secured, and the animal is in a comfortable position without jumping forward, ensuring stability during injection. Second, using light to illuminate the animal's tail to make the blood vessels in the tail visible, so that the needle tip can be inserted in a targeted manner under visible conditions, rather than blindly relying on the feel of the hand. Further, the experimenter can check if the needle has entered the blood vessel by swinging the needle to see if the blood vessel moves with it.

Key Features & Benefits:

- Speed controlled Pressure applicator device operated with pedal switch or keys
- Light intensity adjustment
- Micromanipulator based light positioning below the tail

Orchid's Mouse tail vein injection visualizer is fitted with a motorized tail pressure applicator for holding the tail during the injection. Tail pressure applicator up and down movement speed can be set using the speed regulator knob on the control panel. Up and down movement of the pressure applicator can be controlled by either pedal switch or keys on the control panel. Lamp is mounted on a micromanipulator scale which can be moved on X axis using a knob so that position of light below the tail can be set as per the injection position requirement. Instrument is fitted with lamp intensity adjustment knob for setting the light intensity low or high. Instrument is further fitted with a magnifying glass to see the vein properly.

Ordering Information:

Model	Lamp	Dimensions	Accessories Supplied	Power Requirements
MTV-01	1W LED light source, lamp life: 5000hrs approx.	280 x 160 x 130mm (height without magnifier)	Mouse restrainer suitable for 15g-35g: 01 Pedal switch: 01 Magnifying glass: 01	220/230V AC 50Hz 110/120V AC 50-60Hz

Note: Orchid's continuing product development makes specifications subject to change without prior notification.

ORCHID® SCIENTIFIC
Only Science, No Fiction

Orchid Scientific & Innovative India Pvt. Ltd.

B-59, M.I.D.C., Ambad, Nashik - 422010, India.
+91253-2387600, 2972525
office@orchidscientific.com, exports@orchidscientific.com
www.orchidscientific.com