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von Frey test

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Pharmacological characterization of crotamine effects on mice hind limb paralysis employing both ex vivo and in vivo assays: insights into the involvement of voltage-gated ion channels in the crotamine action on skeletal muscles

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Protocol status: Working

We use this protocol and it's working

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Troubleshooting

- 1 Mice are allowed 30 min of habituation to the same Plexiglas enclosure (9 cm L × 5 cm W × 5 cm H) on a wire-mesh floor (aquarium/vivarium top) instead of a glass floor. The test was applied before (basal measure), and after (15 and 30 min) the intraplantar injection of crostamine (1 or 5 µg/animal paw).
- 2 For assessment of mechanical sensitivity thresholds, mice are tested with von Frey type nylon monofilaments.
- 3 A set of 1 calibrated Von Frey fibers, ranging from 0.1 g until 80 g of pressure force, but about 18 g are applied to the plantar surface of the hindpaw until they bend.
- 4 The threshold force required to elicit withdrawal of the paw (median 50% paw withdrawal) is determined using the up–down method.
- 5 The stimulation was repeated until the animals presented two similar measures, and all testing was blind in regard to the group designation.
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