Fingertip Control for Delicate Viral and Plasmid Injections

Hamilton’s Intraocular Injector Syringe technology provides unprecedented functionality for controlled, intraocular injections in lab animals. Developed specifically for stabilizing surgical injection procedures, the lever-actuated plunger provides flow control for a variety of delicate, animal applications.

Reduce injection site damage with complete control of microliter injections for small, discrete volume dispenses or long, slow dispensing over an extended time period to optimize research needs and conditions.

Built on the Hamilton 800 Series Syringe platform, the injector syringe is ready to perform at a high level of accuracy for years of laboratory use.

Application Confidence in the Laboratory

The innovative flow-control delivers an endless array of dispense speeds for unparalleled versatility in:

- Intraocular injections
- Subretinal injections
- Brain injections

Benefits of the Intraocular Syringe Design:

- One-handed injection
- Improved injection site positioning / stability / dexterity
- Reduce trial-to-trial variability
- Graded injection of virus or plasmid at injection site
The Right Needle for The Task

The Intraocular Injector Syringe incorporates a removable needle design for quick needle replacement to tackle the application at hand.

Removable Needles

Choose from a large selection of Hamilton’s Small Hub Removable (RN) needles.

- Standard needle length is 2 inches / 51 mm
- Custom lengths and point styles are available
- Removable (RN) needles are available in convenient packs of six needles

Needle Point Style Considerations

- Point style 3 is ideal for accurate injection site targeting
- Point style 4 is ideal for sharpness

Glass Capillaries

Hamilton provides compression fittings to securely connect standard 1 mm OD glass capillaries to the Intraocular Injector Syringe.

- Use a preferred glass capillary manufacturer or brand
- Pull your own glass needle and securely attach it to the injector syringe

Intraocular Injector Syringe Ordering Information

<table>
<thead>
<tr>
<th>Hamilton P/N</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6609071-01</td>
<td>6.5 µL, Intraocular Injector Syringe, Removable Needle (RN)</td>
</tr>
</tbody>
</table>

Intraocular Injector Needle Ordering Information

<table>
<thead>
<tr>
<th>Hamilton P/N</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>7803-05</td>
<td>33 gauge, Small Hub RN Needle, custom length (0.75 inch, point style 3)</td>
</tr>
</tbody>
</table>

Glass Capillary Adapter Ordering Information

<table>
<thead>
<tr>
<th>Hamilton P/N</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>55750-01</td>
<td>RN Compression Fitting 1 mm (5 top and bottom ferrules, and 1 RN nut)</td>
</tr>
</tbody>
</table>

*Recommended needle for intraocular injections:

- **Hub Style**: Small RN
- **Gauge**: 33 gauge
- **Length**: 0.75 inches
- **Point Style**: 3 (blunt point)
- **Product Number**: 7803-05

Hamilton offers compression fittings for direct connection of 1 mm glass capillaries to any small Removable Needle (RN) syringe as well as a priming kit for backfilling the system with mineral oil.

If a smaller needle OD is desired a **pulled glass micropipette** might be a good alternative. They are easily made in your lab from 1 mm glass capillary tubing.

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