

# **Neuros**Syringes



#### **Maximum Control, Minimum Damage**

Hamilton Neuros syringe technology provides unprecedented functionality for controlled animal injections. An industry first, the Neuros accurately dispenses 50 nL to 100  $\mu$ L of liquid through an ultrafine needle protected by a custom-designed sleeve. Developed specifically for the neurosciences, the Neuros minimizes injection site damage by increasing needle rigidity and delivering a microvolume of liquid to an exact location.

### Flexible Options for a Variety of Uses

Neuros technology is offered on several models from the 700 Microliter™, 1700 Gastight®, and 7000 Modified Microliter series. These syringes are crafted to have very little to no dead volume which preserves the maximum amount of buffer and solution. Neuros syringes feature a blunt point (point style 3) or a beveled 12° point (point style 4); they also feature two different needle sleeves. The sleeve with a blind stop is perfect for cannulated applications and ensures targeted administration with an adjustable penetration depth. The version without a blind stop works best with stereotaxic holders. Both types provide an adjustable needle exposure of 0 to 20 mm.

## **Benefits of the Neuros Design:**

- Needle rigidity improves insertion path accuracy
- Minimal tissue damage reduces injection variability
- Reduced sample loss saves money and materials
- Fine gauge needle creates smaller injection sites
- Compatibility with most infusion pumps and stereotaxic holders means an easy integration into existing processes





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The plunger for the 7000 series Neuros syringe is a tungsten wire that extends the entire length of the needle all the way to the tip, resulting in zero dead volume. The 700 and 1700 series Neuros syringes feature traditional plungers with 33 gauge needles resulting in minimal dead volume.





R Neuros adapter provides

Each Neuros syringe comes with two needle

The Neuros adapter provides support for the ultrafine gauge needle. Its scale graduations help you set the needle exposure length.

Each Neuros syringe comes with two needle sleeves — one with a blind stop (shown) for cannulated applications and another without that works best with stereotaxic holders.

Both sleeves increase needle rigidity and minimize injection site damage.

Adjust the needle exposure from 0 – 20 mm by sliding the needle sleeve in and out by hand. Tighten the nut to secure.

### **Ordering Information**

Part Number	Volume	Description	Gauge	Point	Syringe Type
65457-01	0.5 μL	Model 7000.5 KH Neuros Syringe	32	3	Modified Microliter
65457-02	0.5 μL	Model 7000.5 KH Neuros Syringe	32	4	Modified Microliter
65458-01	1.0 μL	Model 7001 KH Neuros Syringe	32	3	Modified Microliter
65458-02	1.0 µL	Model 7001 KH Neuros Syringe	32	4	Modified Microliter
65459-01	2.0 μL	Model 7002 KH Neuros Syringe	30	3	Modified Microliter
65459-02	2.0 μL	Model 7002 KH Neuros Syringe	30	4	Modified Microliter
65460-02	5.0 μL	Model 75 RN Neuros Syringe	33	3	Microliter
65460-03	5.0 μL	Model 75 RN Neuros Syringe	33	4	Microliter
65460-05	10 μL	Model 1701 RN Neuros Syringe	33	3	Gastight
65460-06	10 μL	Model 1701 RN Neuros Syringe	33	4	Gastight
65460-10	25 μL	Model 1702 RN Neuros Syringe	33	3	Gastight
65460-11	25 μL	Model 1702 RN Neuros Syringe	33	4	Gastight
65460-15	50 μL	Model 1705 RN Neuros Syringe	33	3	Gastight
65460-16	50 μL	Model 1705 RN Neuros Syringe	33	4	Gastight
65460-20	100 μL	Model 1710 RN Neuros Syringe	33	3	Gastight
65460-21	100 μL	Model 1710 RN Neuros Syringe	33	4	Gastight

## **HAMILT®N**®

