



**CADENCE SCIENCE® SYRINGES  
FOR FLUID SAMPLING, TESTING,  
DIAGNOSING, AND DISPENSING.**

**Cadence Science®** offers the most comprehensive line of reusable glass syringes and accessories for laboratory, life science and industrial applications. Syringes conform to ISO 594 specifications and are supplied in non-sterile condition, offering unbeatable quality and value. These syringes are made from superior borosilicate glass.

- The excellent physical-chemical properties of the glass provides extra protection against thermal shock and corrosion resistance.
- The pure properties of glass also ensure that testing and clinical procedures can be performed with confidence, without risk of allergic reactions or chemical interactions that can be associated with plastic syringes.

## Syringe Types:

- Interchangeable
- Matched Numbered
- Jumbo
- Tuberculin (Mini)
- Pressure Control
- Dissolved Gas Analysis (DGA)
- Evacuating (Toomey type)
- Robb-Type Angiography
- Plungerless Asepto Irrigating
- Pipetting Syringes & Manifolds

## Tip Styles

The three basic tip styles available all conform to the ISO 594 standard for luer taper fittings and allow the user to choose the best syringe type for their specific application.



### Metal Luer Lock Tips

Metal luer lock tips are made of chrome-plated brass. They are fitted to heavy glass bases to assure greater strength than glass luer tips. All luer needles lock into the lock tip with an easy twist.



### Metal Luer Slip Tips

Metal luer slip tips embody all the same features as metal luer lock tips, except for the unique special locking device. These metal tips are chrome-plated brass and fit all luer needles and other female luer fittings.



### Glass Luer Slip Tips

All glass luer slip tips have reinforced glass bases to assure strong tips and minimize breakage. They have beveled ends to reduce chipping.

# SYRINGES

## Micro-Mate® Interchangeable Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
5004	Lock Tip	12	<b>2mL</b> in 1/10mL
5005	Metal Tip	12	
5006	Glass Tip	12	
5007	Lock Tip	1	
5008	Metal Tip	1	
5009	Glass Tip	1	
5067	Lock Tip	1	<b>3mL</b> in 1/5mL
5014	Lock Tip	12	<b>5mL</b> in 1/5mL
5015	Metal Tip	12	
5016	Glass Tip	12	
5017	Lock Tip	1	
5018	Metal Tip	1	
5019	Glass Tip	1	
5024	Lock Tip	12	<b>10mL</b> in 1/5mL
5025	Metal Tip	12	
5026	Glass Tip	12	
5027	Lock Tip	1	
5028	Metal Tip	1	
5029	Glass Tip	1	
5034	Lock Tip	12	<b>20mL</b> in 1mL
5035	Metal Tip	12	
5036	Glass Tip	12	
5037	Lock Tip	1	
5038	Metal Tip	1	
5039	Glass Tip	1	
5047	Lock Tip	1	<b>30mL</b> in 1mL
5048	Metal Tip	1	
5049	Glass Tip	1	
5057	Lock Tip	1	<b>50mL</b> in 2mL
5058	Metal Tip	1	
5059	Glass Tip	1	



### Micro-Mate® Interchangeable Glass Syringes

Interchangeable syringes are manufactured to ensure the perfect mating of barrels and plungers. Any Micro-Mate® interchangeable syringe of a particular size will fit any Micro-Mate® interchangeable barrel of that same size.

#### Features:

- Precision shrinking ensures improved fit
- Colored plunger ends are fused around bottom beveled rim of plunger to facilitate dosage measurements
- Made from borosilicate glass providing protection against thermal shock
- Corrosion resistant
- Graduations permanently fused into glass barrel
- Reinforced flanges prevent syringe rolling

### Jumbo Syringes



## Perfektum® Matched Numbered Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
5101	Lock Tip	1	<b>1mL</b> in 1/20mL
5107	Lock Tip	1	
5108	Metal Tip	1	<b>2mL</b> in 1/10mL
5109	Glass Tip	1	
5167	Lock Tip	1	<b>3mL</b> in 1/5mL
5169	Glass Tip	1	
5117	Lock Tip	1	
5118	Metal Tip	1	<b>5mL</b> in 1/5mL
5119	Glass Tip	1	
5127	Lock Tip	1	
5128	Metal Tip	1	<b>10mL</b> in 1/5mL
5129	Glass Tip	1	
5137	Lock Tip	1	
5138	Metal Tip	1	<b>20mL</b> in 1mL
5139	Glass Tip	1	
5147	Lock Tip	1	<b>30mL</b> in 1mL
5149*	Glass Tip	1	
5157	Lock Tip	1	<b>50mL</b> in 2mL
5159*	Glass Tip	1	
5177	Lock Tip	1	<b>100mL</b> in 4mL
5179*	Glass Tip	1	
5331	Lock Tip	1	<b>150mL</b> in 10mL
5333	Lock Tip	1	<b>250mL</b> in 10mL

Note:\* Includes tip adapter to convert large male glass luer to standard male metal luer.

## Perfektum® Matched Numbered Glass Syringes

Perfektum® matched numbered syringes feature frosted individually lapped barrels and plungers which can withstand higher temperatures. These syringes are individually boxed and have matching serial numbers on mating barrels and plungers.



## Jumbo Syringes

These precision made syringes are ideal for efficiently dispensing larger volumes of corrosive, toxic, and noxious liquids in aspirating, infusing, pipetting, sampling, and other critical procedures.

## Perfektum® Eccentric Tip Matched Numbered Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
5126	Glass Tip	1	<b>10mL</b> in 1/5mL
5136	Glass Tip	1	<b>20mL</b> in 1mL
5154	Lock Tip	1	<b>50mL</b> in 2mL



## Eccentric Tip Syringes

Eccentric tip syringes feature an offset nozzle that is on the edge of the syringe barrel. This allows an attached needle to be closer in line with the syringe walls so that the needle is nearly parallel with the injection surface.

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## Tuberculin Mini Glass Syringes

Tuberculin mini glass syringes are widely used in clinical and research procedures for the administration of precise low-volume doses ranging from 1/4mL to 2mL. Fabricated of chemically resistant borosilicate glass with easy-to-read accurate permanent calibration lines.



## Perfektum® Tuberculin Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
5200	Glass Tip Matched Numbered	1	<b>1/4mL</b> in 1/100mL
5201	Glass Tip Matched Numbered	1	<b>1/2mL</b> in 1/100mL
5212*	Lock Tip	1	<b>1mL</b> in 1/100mL
5202	Glass Tip Matched Numbered	1	
5203**	Glass Tip Matched Numbered	1	
5205	Lock Tip Matched Numbered	1	

Note: \* Includes metal plunger.

\*\* Includes blue plunger.



**5203 - Includes Blue Plunger**

## Micro-Mate® Tuberculin Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
5208	Glass Tip Interchangeable	1	<b>1mL</b> in 1/100mL
5209	Lock Tip Interchangeable	1	
5206	Glass Tip Interchangeable	1	<b>2mL</b> in 1/40mL
5207	Lock Tip Interchangeable	1	



**5212 - Includes Metal Plunger**

## Pressure Control Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
5338*	Lock Tip	1	<b>1mL</b> in 1/100mL
5339	Lock Tip	1	<b>2mL</b> in 1/20mL
5340	Lock Tip	1	<b>3mL</b> in 1/5mL
5341	Lock Tip	1	<b>5mL</b> in 1/5mL
5342	Lock Tip	1	<b>10mL</b> in 1/5mL
5343	Lock Tip	1	<b>20mL</b> in 1mL

Note: \* Includes metal plunger.

### Pressure Control Glass Syringes

**Cadence Science®** pressure control syringes are designed with large, comfortable thumb and finger rings. These chrome-plated rings give the user a positive grip, permitting easy and accurate delivery. Pressure control syringes are particularly useful for injecting viscous fluids or in any application that requires one-hand filling.



# SYRINGES

## Dissolved Gas Analysis (DGA) Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
G5117	Lock Tip	1	<b>5mL</b> in 1/5mL
G5127	Lock Tip	1	<b>10mL</b> in 1/2mL
G5147	Lock Tip	1	<b>30mL</b> in 1mL
G5157	Lock Tip	1	<b>50mL</b> in 2mL
G5177	Lock Tip	1	<b>100mL</b> in 4mL
G5331	Lock Tip	1	<b>150mL</b> in 6mL
G5333	Lock Tip	1	<b>250mL</b> in 10mL



### Dissolved Gas Analysis (DGA) Syringes

**Cadence Science®** DGA glass syringes are used to take samples of mineral oil in a transformer. Transformer mineral oil cools the transformer and provides electrical insulation. When this mineral oil is subjected to high thermal and electrical stresses, it decomposes and gases are generated. Different gases are generated from different types of faults, and the chemical analysis of these gases (Dissolved Gas Analysis) provides diagnostic information about the condition of the transformer.

Cadence DGA syringes are custom fit (matched numbered) to create a tight fit between the barrel and plunger. The barrels are frosted in order to improve the fluency of the barrel while pulling an oil sample out of the transformer.

## Toomey Evacuating Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
5350*	Catheter Tip	1	<b>50mL</b> in 1mL

*Note: \* Includes metal catheter tip adapter #6218.*



### Toomey Evacuating Glass Syringes

The Toomey evacuating syringe is fitted with a nickel plated catheter tip and is useful in irrigating applications.

## Robb-Type Angiography Glass Syringes

Cat No.	Description	Pack Size	Size and Graduation
5192	Lock Tip	1	<b>50mL</b> in 1mL

### Robb-Type Angiography Syringes

This specially designed syringe has ground glass barrels featuring a reduced barrel I.D. This reduction produces higher pressures during injection procedures which require the use of contrast media or saline flushes. Additionally, the syringe features an 0.088" effluent luer lock tip which ensures that a greater fluid rate can be achieved during the injection procedure.



## Plungerless Asepto Irrigating Glass Syringes

Cat No.	Pack Size	Size and Graduation
5301	1	<b>1/2oz</b> in
5302	1	<b>1oz</b> in
5304	1	<b>2oz</b> in
5305	1	<b>3oz</b> in



### Irrigating Syringes

Plungerless irrigating syringes are made of heat resistant annealed glass. These syringes are fitted with age-resistant rubber bulbs which assure excellent service and repeated sterilizations for extended periods.

# SYRINGES

## Pipetting Assemblies (Comparable to BD Cornwall\*)

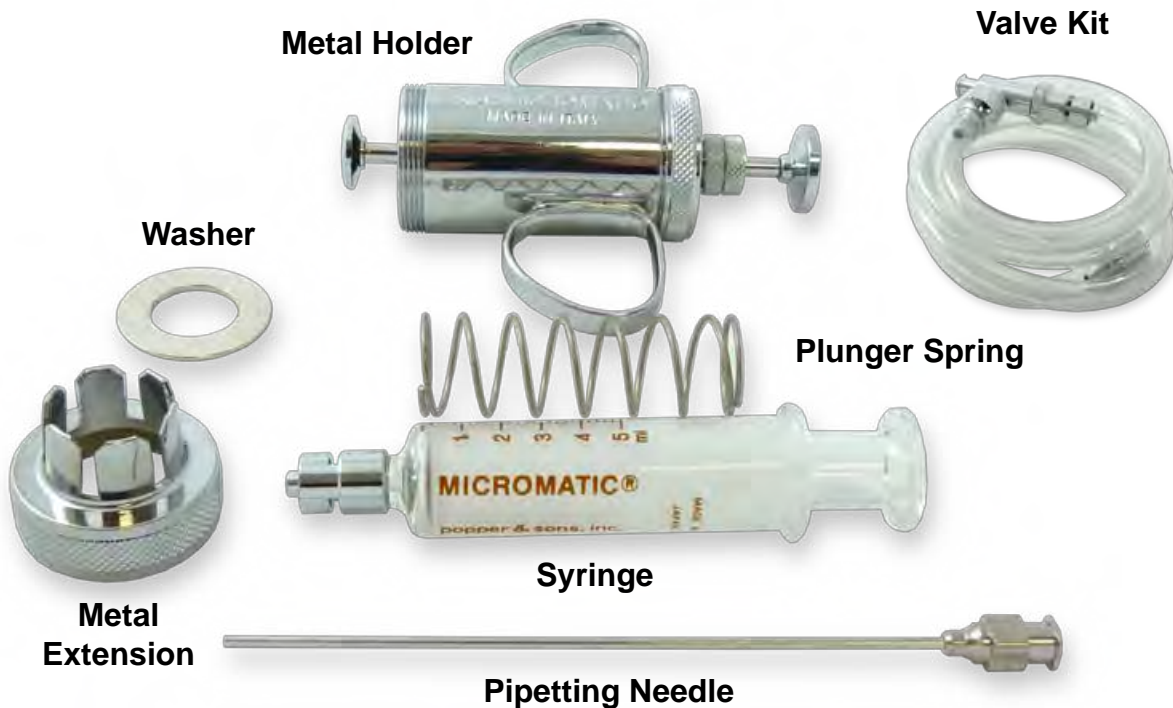
Cat No.	Size and Graduation	Fill Range	Pack Size	Replacement Parts				
				Syringe	Metal Holder	Valve Kit	Valve Only	Pipetting Needle
5700	1mL in 1/50mL	0.1ml to 1.0ml	1	5701	5703	6080	6082	7932 (20G x 1 1/2")
5710	2mL in 1/10mL	0.2ml to 2.0ml	1	5711	5713	6080	6082	7932 (20G x 1 1/2")
5720	5mL in 1/5mL	0.5ml to 5.0ml	1	5721	5723	6080	6082	7939 (16G x 4")
5730	10mL in 1/2mL	1.0ml to 10ml	1	5731	5733	6081	6083	7941 (14G x 4")

### Cadence Science® Pipetting Assemblies



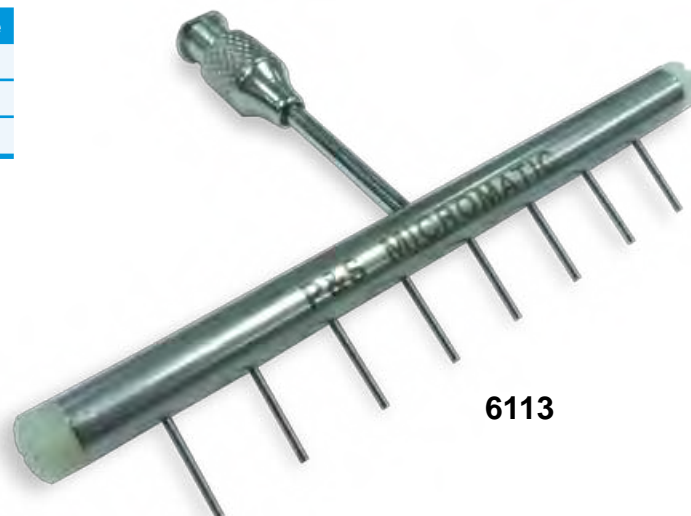
Cadence Science® pipettor units feature durable spring loaded syringe assemblies, automatic 2-way valves, and are autoclavable. Cadence Science® replacement syringes fit interchangeably into both Cadence Science® pipetting assemblies as well as BD Cornwall Pipetting Outfits.

\* BD Cornwall is a registered trademark of Becton Dickinson and Company.



## Pipetting Manifolds

Cat No.	Description	Pack Size
6113	8-Tip Center Feed Manifold	1
6114	8-Tip Side Feed Manifold	1
6156	Aspiration Adapter	1



6113

### Cadence Science® Pipetting Manifolds

**Cadence Science®** 8 tip center and side feed manifolds can be used with **Cadence Science®** pipetting assemblies or with any other luer taper or luer lock pipetting system. Together, **Cadence Science®** manifolds and pipettors allow for quick repetitive, quantitative volumetric distribution of reagents in volumes as low as 50 µl per well. The all stainless steel construction, including female luer fittings, provides for leakproof assembly to pipetting units.

#### CUSTOM OPTIONS ALSO AVAILABLE...

In addition to our standard **Cadence Science®** product line, Cadence is also a leading provider of manufacturing and turn-key solutions for today's custom design challenges. By utilizing our extensive body of knowledge relating to specialty needles and tube fabrication, we are able to custom-fit our standard products to unique applications, as well as to undertake the custom manufacturing of complex OEM products.

For more information on how to best leverage our custom capabilities contact us today at 1-800-252-3371 or e-mail your requirements to [sales@cadenceinc.com](mailto:sales@cadenceinc.com).



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