



Gold Standard Autosampler Syringes

With a broad selection of syringes for auto injection, Agilent has what you need for accurate and effective sampling. Agilent delivers even more value in every autosampler syringe with the introduction of many new features in our line of Gold Standard GC Autosampler Syringes.

Agilent Gold Standard Autosampler syringes are designed:

- For reproducible sample volume delivery.
- Specifically for the Agilent inlet or autosampler.
- To maximize inlet septum lifetime.



Gold standard autosampler syringes

Agilent Gold Standard Autosampler syringes feature:

- Lot numbers printed directly on the barrel with a corresponding Certificate of Conformance ensuring certified performance to all specifications.
- Gold protective cap on the fused needle, preventing the glass syringe barrel from chipping as it is pressed against the inlet.
- Black ink and gold illuminating backing strip, for effortless viewing of the volume scale, which is easily discernible from imitators.
- Environmentally friendly packaging, an improved design that reduces waste.
- Individually sealed packaging, for contaminant-free use right out of the box.

Tips & Tools



Use syringe needles with an Agilent dual-taper needle or a conical tip. Sharp-tipped needles tend to tear the inlet septum and cause leaks. Also, a sharp-tipped needle tends to leave residual amounts of sample on the septum as it exits, resulting in a large solvent tail on the chromatogram.

Needle Gauge Selection

- Syringe needles compatible with Agilent Automatic Liquid Samplers are 42 mm long and have an HP style or cone shaped tip.
- The Merlin Microseal requires 23 gauge needles.
- The smaller the gauge, the larger the needle diameter.

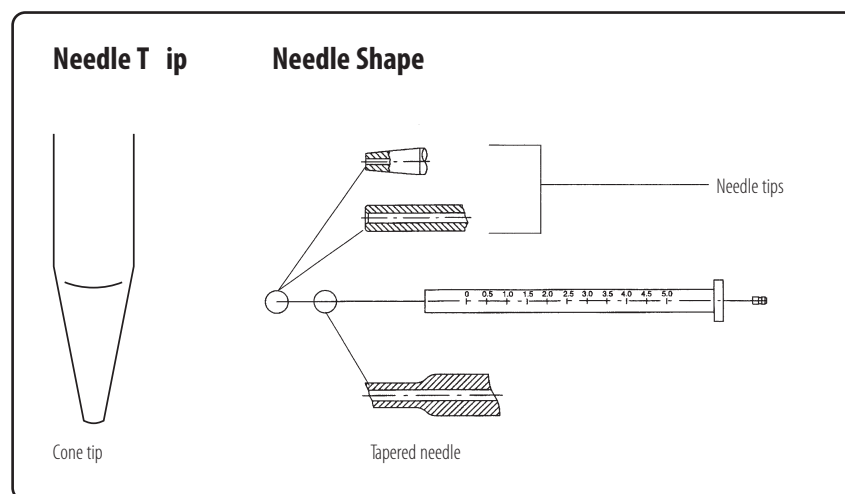
Needle Gauge Selection

Inlet	Needle Gauge	Column Type
Packed, split or splitless (including PTV)	23 gauge or 23/26 gauge tapered	Any
Cool on-column	23/26 gauge tapered or 26 gauge	530 μm
Cool on-column	26/32 gauge tapered	320 μm
Cool on-column	26/32 gauge tapered	250 μm



Tips & Tools

For highest productivity and to minimize coring, use Agilent Premium Non-Stick Inlet Septa with Center Point Guide.





Syringe Characteristics and Recommended Uses

Syringe	Advantage	Limitations	Recommended Use
10 µL, PTFE-tipped	<ul style="list-style-type: none"> • Less plunger binding than fitted plunger • Replaceable plunger for reduced repair cost • Tight seal between plunger and barrel 	<ul style="list-style-type: none"> • More expensive than fitted plunger • PTFE-tipped syringes not available in 5 µL size 	<ul style="list-style-type: none"> • High sample throughput • Samples in polar solvents • Dirty samples • Gases and volatile samples • Reactive samples
10 µL, fitted plunger	<ul style="list-style-type: none"> • Most economical • Most reliable fitted plunger syringe • Less bending • Better for high viscosity samples 	<ul style="list-style-type: none"> • Most accurate only for 1 µL and larger injections • Plunger not replaceable 	<ul style="list-style-type: none"> • General purpose syringe • Clean samples • Routine analysis
5 µL, fitted plunger	<ul style="list-style-type: none"> • Most accurate for 1 µL injection • No hardware modification needed for 0.5 µL 	<ul style="list-style-type: none"> • Thinnest plunger, can bend more easily • Not ideal for higher viscosity samples • Plunger not replaceable 	<ul style="list-style-type: none"> • 1 µL injections • Clean samples • Routine analysis