

Introduction

This syringe has been engineered and proven to provide the best possible user experience.

Key benefits of SGE syringes are:

- Longer life
- Superior performance and robustness
- Reduced carryover

In order to maintain optimum performance and long life, a few simple care issues should be considered.

Specifications

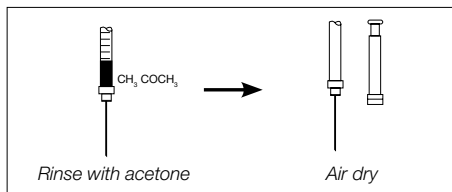
- Temperature: Fixed Needle or Luer: 5-70°C.
Removable Needle or Luer: 5-100°C.
- Accuracy and reproducibility: ±1% of displaced volume at full scale.

Instructions

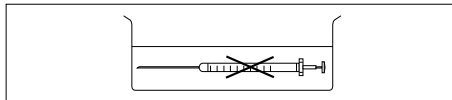
- Always inspect the syringe before use. Check the barrel for cracks and the needle tip for burrs.
- To make an injection, over fill the syringe then press the plunger until the correct volume is reached. Draw the plunger back slightly then wipe the needle tip with a lint free tissue. Make injection or dispense.
- To ensure accuracy, the smallest injected volume from any syringe should be no less than 10 % of its total capacity.
- To remove bubbles turn the syringe upright, tap the side of the barrel to dislodge the bubbles and then expel them from the syringe.
- To eliminate carryover between samples, flush the syringe with solvent 5-20 times, remembering to discard the first 2-3 washes.

Clean and care

- Syringe cleaning agents will usually depend on the contaminating material. Methanol, methylene chloride, acetonitrile and acetone are commonly used solvents for cleaning.
- After the syringe has been cleaned, rinse the syringe with acetone, remove plunger and air dry.



- Do not immerse the entire syringe in solvent as this may damage the adhesive used to bond parts of the syringe.



- Clean externally by wiping with a tissue.
- Sterilization modes:
 - Autoclave: Remove plunger from the barrel prior to autoclaving. Set autoclave to a maximum temperature of 100°C for removable needle syringes and 70°C for fixed needle and luer tip syringes. Allow syringes to come to room temperature before inserting the plunger back into the barrel.
 - Gas: Use ethylene oxide.

Plunger care

PTFE tipped plungers

- Avoid cycling the plunger when the syringe is dry.
- Replacement PTFE tipped plungers are available.

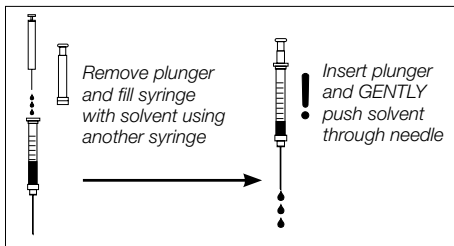
Metal plungers

- Avoid unnecessary movement of the plunger when the syringe is dry.
- Never force the plunger.
- Do not pump the plunger when the needle is blocked as the high pressure generated could crack the barrel.

- Wipe plunger clean with a lint free tissue before replacement. Be careful not to bend the plunger.
- Replacement metal plungers for standard syringes are not available. Metal plungers are individually fitted to the barrels to achieve a seal. This means the plungers are not interchangeable.

Needle care

- Check the needle for burrs prior to use. Use a fine emery board or carborundum to remove burrs.
- To unblock needles, remove the plunger and fill the syringe with solvent using another syringe. Re-insert the plunger and gently push solvent through needle. Never force the plunger. Too much pressure may crack the syringe barrel.



- The following syringe needle cleaning products are available:
 - Needle cleaning kit: The kit contains a range of stylet wires for needle cleaning, tweezers and a surfactant material for barrel cleaning.
- To replace needles unscrew front cover nut and spring, remove needle. Carefully insert replacement needle into the front of the syringe, slide spring and cover nut over the needle and screw nut onto the front screw of the syringe barrel.

Storage

- To protect against breakage store the syringe in its original packaging or on a syringe rack.
- Always thoroughly clean the syringe and ensure that it is dry before storage.

Warranty

All Trajan Scientific and Medical syringes are warranted to meet the stated quality and performance specifications and to be free of defects in material or workmanship. The warranty implies free replacement of a defective syringe only upon proper written proof of the defect and if requested by Trajan Scientific and Medical the return of the defective product in its original packaging. It does not apply to mishandling of product by the customer, either in storage or use.

- Do not return any syringe that has been used with radioactive, infectious or hazardous materials.
- Do not return any syringe unless requested to do so by an authorized Trajan representative.
- Any syringe being returned must be clearly marked with a return authorization number, which is available from your Trajan representative.

Conformance statement

Trajan syringes are manufactured under a documented Quality Management System. All in-process measuring equipment and instrumentation is maintained and calibrated in accordance with stringent quality standards. Trajan warrants syringe displacement within the stated conformity specifications.

Information and support

Visit www.trajanscimed.com or contact techsupport@trajanscimed.com

Specifications are subject to change without notice.

Analytical syringes manufactured by Trajan Scientific and Medical are intended for analytical and laboratory use only and are not intended or approved for use with food, including the production or packaging of food, nor medical or human in-vivo use.