

## Introduction

The needle cleaning kit is ideal for cleaning and unblocking needles.

Syringes should be carefully cleaned after use. Syringe cleaning agents will usually depend on the contaminating material. Methanol, methylene chloride, acetonitrile and acetone are commonly used.

## Important

### ⚠ Caution

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. Ensure the syringe is dry before storage.

Never force the plunger – too much pressure may crack the barrel.

Do not try to forcibly operate a syringe with a blocked needle, the high pressure created may crack the glass barrel.

## Packing list

15 cm long x 0.10 mm OD wires, PK5  
 15 cm long x 0.15 mm OD wires, PK5  
 15 cm long x 0.20 mm OD wires, PK5  
 20 mL cleaning solution concentrate  
 Tweezers

## Instructions

The cleaning solution concentrate supplied is biodegradable, nonflammable and has no phosphates. For routine cleaning, tap water may be used to prepare cleaning solutions, but for more critical work distilled water should be used.

Typical concentrations are: 2 % solution for normal contamination, 5 % solution for heavy contamination, and up to 20 % solution for persistent contamination.

## Stylet cleaning wires

The following table will help you determine the appropriate cleaning wire for your syringe needle.

Plunger-in-barrel syringe capacity	Wire OD (mm)
5, 10 µL	0.10
25, 50 µL	0.15
100 µL and over	0.20

## Cleaning syringe needles

1. Remove the plunger.
2. Select a suitable stylet cleaning wire. Using a sharp pair of scissors, cut the wire about 10 mm longer than the blocked needle.
3. Firmly grip the wire with the tweezers supplied, about 2 mm from one end, and gently feed that end of the wire into the needle about 2 mm at a time until it touches the obstruction.
4. Using short but gentle stabbing strokes against the blockage, the obstruction should dislodge from the needle. To help remove a more persistent obstruction, occasionally dip the wire into the cleaning solution concentrate.
5. After the blockage has been removed, refit the plunger, flush the syringe and needle with the concentrate followed by distilled water. Flush with acetone.
6. Allow the syringe to air dry.

## Cleaning syringe barrels

1. Pump a suitable concentration of the cleaning solution through the syringe –with drawing the plunger to full scale.
2. Rinse the syringe with distilled water.
3. Flush with acetone.
4. Remove plunger and wipe with a lint-free tissue. Taking care not to touch or damage the plunger.
5. Refit plunger and flush with acetone.
6. Allow syringe to air dry.

## Cleaning plunger-in-needle syringes

Refer to the cleaning steps for NanoVolume syringes in the manual supplied with the syringe.

## Information and support

Visit [www.trajanscimed.com](http://www.trajanscimed.com) or contact [techsupport@trajanscimed.com](mailto:techsupport@trajanscimed.com)

*Specifications are subject to change without notice.*