The Gentech® generator is delivered with 0.9% Sodium Chloride injection BP (saline) vials, evacuated elution vials, sterile swabs and needles. The generators are sterile and pyrogen free when they leave ANSTO. Observe aseptic technique during the use of the Gentech® generator.

**SUBSEQUENT ELUTIONS**

1. Remove the used saline vial by twisting anti-clockwise and replace with a fresh sterile needle.
2. Remove the yellow protective cap from the Gentech® saline spike.
3. Grip the red protective cap on the elution vial shield. Try another evacuated elution vial.
4. Place the needle cover back on to the vial and needle, and leave it in place until the next elution. Replace with a fresh sterile needle before each elution.
5. Do not remove the saline vial assembly until the next elution.

**TROUBLESHOOTING TIPS**

When generator is not eluting:

1. Check that the elution needle is not loose (see step 6).
2. Try another evacuated elution vial.
3. If you inadvertently removed the elution vial before its elution sequence, the column will have become wet and will need to be dried. Attach a fresh evacuated elution vial, but do not remove the saline vial unless it is still contains some saline. In this case, repeat it with an empty saline vial. This will allow air and not saline, to pass through and this will dry off the column. This process using an empty saline vial and a new evacuated elution vial can be repeated to ensure the column is dry.
4. Call ANSTO Customer Service on 1800 251 572 or email health@ansto.gov.au

To prevent damaging the spike, ensure:

1. To use the new Gentech® saline vial holder, provided with every new generator in the foam insert of the transport packaging of every new Gentech® generator.
2. The protective flip-off seal is removed from the saline vial.
3. The lid of the Gentech® generator garage is fully open, to allow clear access to the Gentech® generator.
4. The yellow protective cap is removed from the saline spike.
5. The saline vial is placed on the spike vertically and not at an angle.
6. Following washing of the elution septum of the saline vial, ensure to allow to dry.

**Directions for use**

1. Remove the Gentech® generator and its accessories from the transport packaging install in the Gentech® garage or on the user shielding.
2. Lift the Gentech® handle. Rotate the cover until the yellow saline spike cover is engaged with the metal cap to hold the vial in place. Swab the top of the evacuated elution vial with a sterile swab provided. Ensure to allow to dry.
3. Remove the flip off seal from the saline vial (5 or 10 mL). The maximum elution volume is 5 mL. For elution volume between 5 and 10 mL aspirate the unused saline from the vial with a hypodermic sterile needle and discard.
4. Place a Gentech® saline vial into the new Gentech® saline vial holder provided in the foam insert of the transport packaging with every generator. Swab the exposed part of the saline vial silicon septum with a sterile swab provided. Ensure to allow to dry.
5. Remove the yellow protective cap from the Gentech® saline spike.
6. Align the lugs of the Gentech® saline vial holder with the grooves in the saline vial shield window, check that the elution has occurred. If the elution did not occur, repeat steps 3 and 4, and lift the Gentech® saline spike until the lugs of the saline vial shield are engaged with the metal cap to hold the vial in place. Swab the top of the evacuated elution vial with a sterile swab provided. Ensure to allow to dry.
7. Remove the white plastic lid from the elution vial shield. Remove the red flip-off seal from a 30 mL evacuated elution vial. Place the decapped vial in the elution vial shield and screw on the metal cap to hold the vial in place. Swab the top of the evacuated elution vial with a sterile swab provided. Ensure to allow to dry.
8. Grip the red protective cap (male luer closure), turn it anti-clockwise through 90°, and remove from the outlet filter. With the sterile needle cover in place, attach a sterile needle (25G swivel tip). Caution, do not over-tighten. Remove the sterile needle cover.
9. Insert the prepared elution vial shield onto the sterile needles. Lower the evacuated elution vial shield until the evacuated elution vial is fully penetrated by the sterile needle. Allow at least 1 minute to complete the elution.

**Observe the opening of the saline vial and the filling of the evacuated elution vial, indicated by the sound of air bubbles in the saline vial and the filling of the user shielding.**

**REFERENCES**


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