biomnis
SPECIALISED MEDICAL PATHOLOGY

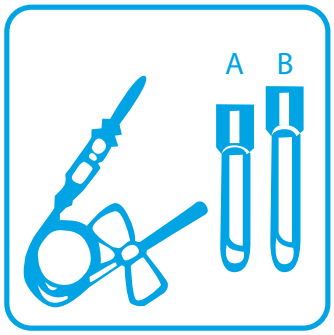
Sampling procedure for PAXgene blood RNA tubes

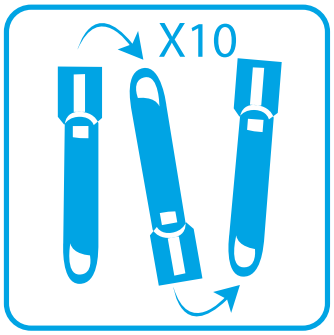
Information

- The PAXgene™ Blood RNA tube contains an additive that stabilises the in vivo gene transcription by reducing the in vivo RNA degradation and minimising gene induction.
- The PAXgene™ Blood RNA kit was designed for intracellular RNA purification of human whole blood with a leucocyte count of less than 11G/L.
- Store unused PAXgene™ Blood RNA tubes at ambient temperature.
- Insufficient filling of these PAXgene™ Blood RNA tubes causes an incorrect blood/additive ration and results in a susceptibility to false results and impeded product performance.
  It is therefore important to follow the sampling procedure for this tube.

Blood sampling procedure

- Ensure that the PAXgene™ Blood RNA tube is at a temperature of 18-25°C and that the tube is sufficiently labelled with the patient's details before use.
- If only the PAXgene™ Blood RNA tube is to be used, bleed the patient by collecting a preliminary tube before filling the PAX™ Blood RNA tube. This improves the internal volume inside the blood sample collection device used in phlebotomy.





Order of tubes for sample collection :
Tube A – Bleeding tube
Tube B - PAXgene™ Blood RNA tube

- Using a blood sample collection device and a needle holder, draw the blood into the PAXgene™ Blood RNA by following the local recommended standard blood collection protocol for venous pucture. The techniques below should be followed to reduce the risk of reflux :

  › Position the patient's arm in a downwards position.
  › During sample collection keep the tube in a vertical position below the patient's arm.
  › Release the torniquet as soon as the blood starts to flow into the tube.
  › Ensure that the additive does not touch the lid or the end of needle during sample collection.

- Once the sample has been collected, gently inverse the PAXgene™ Blood RNA tube 8 – 10 times.
- Keep the PAXgene™ Blood RNA tube vertical and at ambient temperature (18 – 25°C) for at least 2 hours before freezing the sample (-20°C).

Sample Freezing Procedure

Place the sample vertically in a metal rack. Do not freeze the sample vertically in a polystyrene rack as the tubes could break.

The PAXgene™ Blood RNA can break if subjected to a shock. To reduce the risk of breakage during transportation, the frozen tubes should be treated as if they were glass tubes.

K10P UK

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