

Wairoa i-STAT - Sample Requirements

Sample Collection:

Arterial: Heparinised syringe filled to capacity. Mix sample by rolling between palms for at least 5 seconds in two directions, then invert the syringe repeatedly for at least 5 seconds. Samples for Blood gases should be tested within 10 minutes. Test for other analytes within 30 minutes.

- Avoid drawing air into syringe for blood gas.
- If not tested immediately, remix and discard 2 drops of blood before filling cartridge.
- Do not use iced samples.

Venous: Collection tube with lithium or sodium heparin filled to capacity and mixed by gentle inversion at least 10 times. Test within 10 minutes.

- Do not leave tourniquet on for more than 2 minutes.
- Do not take from a drip arm.

Capillary: Collect into plain or heparinised capillary tubes. Test immediately.

- Allow alcohol to dry over puncture site before collecting the sample
- Do not “milk” finger or heel while collecting blood.

Cartridge Specific Requirements:

INR (PT/INR):

INR can be performed using venous or capillary samples. For venous samples, use a plain plastic syringe with **no heparin**. For capillary samples, the **first drop of blood** must be used.

Chem8+:

- Whole blood collected into non-heparinised capillary tubes or syringes so long as the sample is tested immediately after the blood is drawn.
- Heparinised whole blood collected into heparinised capillary tubes or heparinised syringes.
- Heparinised whole blood collected in evacuated tubes containing lithium or sodium heparin, so long as the tubes are filled to capacity.

Troponin I (cTnI):

- Heparinised whole blood collected in evacuated tubes containing lithium or sodium heparin, so long as the tubes are filled to capacity.
- Non heparinised whole blood tested within one minute of collection into a plastic syringe.

Capillary tube collection and direct finger punctures should not be used.

Blood Gas (CG4+):

Heparinised arterial or venous sample filled to capacity. Mix well by inversion and test within 10 minutes.