

Intended use

The Blood Collection Kit is intended for whole blood collection for further processing and testing of cell-free plasma DNA with the Marsden360 test.

Principles of the procedure

Accurate analysis of cell-free DNA (cfDNA) can be compromised by sample handling and extreme shipping and processing conditions. The Cell-Free DNA BCT CE tube contains a formaldehyde-free preservative that stabilizes white blood cells, preventing the release of genomic DNA, allowing isolation of high-quality cell-free DNA.

Blood collection (Streck) tube

Cell-Free DNA BCT CE contains the anticoagulant K3EDTA and a cell preservative in a liquid medium.

Precautions and limitations

- 21G or 22G needle is advised for best result.
- A non additive or EDTA tube should be partially drawn first as a waste tube prior to collection in the cfDNA tube, particularly when using a winged (butterfly) collection set.
- Broken or expired tube should be disposed with infectious waste material.
- Overfilling or underfilling will result in an incorrect blood-to-additive ratio.
- Inadequate or delayed mixing may result in poor product performance.
- Do not freeze specimens collected in blood collection tube as breakage could result.
- Check expiration date prior to using the tubes for collection. Do not use tubes after expiration date.
- Glass has the potential for breakage; precautionary measures should be taken during handling.
- Do not use tubes for collection of materials to be injected into patients.
- Product is intended for use as supplied.
- Do not dilute or add other components to the blood collection tube.
- Cloudiness or precipitate visible in reagent of unused tube indicates product deterioration. Do not use tube.
- For single use only.
- Samples drawn in other anticoagulants or preservatives may cause coagulation in the blood collection tube.
- SDS for the blood collection tube can be obtained at www.Streck.com or by calling +44 (0)23 8048 3000

Storage and stability

- When stored at 2°C–30°C, unused blood collection tube is stable through expiration date. The shelf life is printed on each individual tube. Do not freeze unfilled blood collection tube.
- Samples collected in the blood collection tube for processing and testing with Marsden360 are stable for up to 7 days when stored at ambient temperatures.

Blood collection requirements

1. Two 10.0 ml blood collection tubes with sample labels attached and sample mailer.
2. Marsden360 test requisition form.

References

- Das K., Dumais J., Basiaga S., Krzyzanowski G. Carbon-13 nuclear magnetic resonance analysis of formaldehyde free preservatives. *Acta Histochemica* 2013; 115: 481-486.
- Das K., Fernando M.R., Basiaga S., Wigginton S., Williams T. Effects of a novel cell stabilizing reagent on DNA amplification by PCR as compared to traditional stabilizing reagents. *Acta Histochemica* 2014; 116: 55-60.
- Norton S.E., Lechner J.M., Williams T., Fernando, M.R. A stabilizing reagent prevents cell-free DNA contamination by cellular DNA in plasma during blood sample storage and shipping as determined by digital PCR. *Clinical Biochemistry* 2013; 46: 1561-1565.
- Norton S.E., Luna K.K., Lechner J.M., Qin J., Fernando M.R. A new blood collection device minimizes cellular DNA release during sample storage & shipping when compared to a standard device. *Journal of Clinical Laboratory Analysis* 2013; 27: 305-311.
- Qin J., Alt J.R., Hunsley B., Williams T., Fernando M.R. Stabilization of circulating tumor cells in blood using a collection device with a preservative reagent. *Cancer Cell International* 2014, 14:23.
- Clinical and Laboratory Standards Institute. H3-A6, Procedures for the collection of diagnostic blood specimens by venipuncture. Approved Standard - Sixth Edition.

Glossary of harmonized symbols



Sterilized using irradiation



Batch Code



Catalog Number



Do not Re-use



Use by



Biological risk



Temperature limitation



Consult instructions for use



Manufacturer



Date of manufacture



Content sufficient for number of tests specified

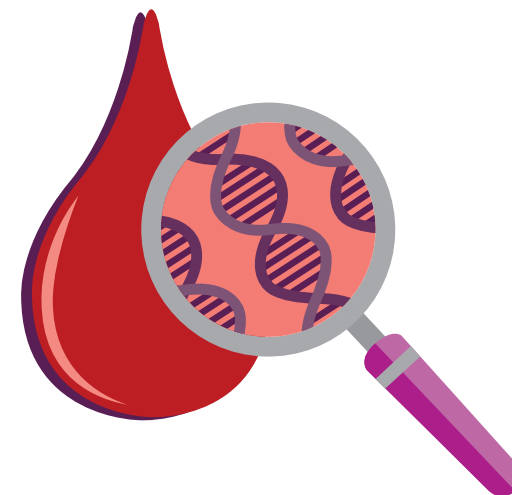
The ROYAL MARSDEN

Marsden360

Developed in partnership with Guardant Health

Instructions for use

Blood collection requirements



Marsden360

Developed in partnership with Guardant Health

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ClinicalGenomics_PP@rmh.nhs.uk



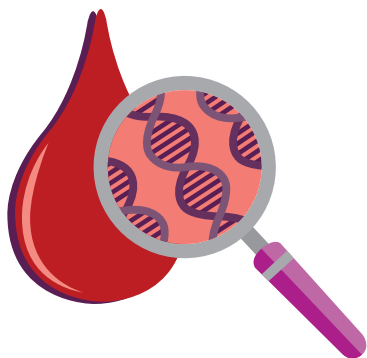
Ordering a Marsden360

- 1 Please contact the team to receive a request form and information about ordering test kits.

For NHS referrals please email:
Marsden360@rmh.nhs.uk

For private patient referrals please email:
ClinicalGenomics_PP@rmh.nhs.uk

or telephone **020 8915 6565**

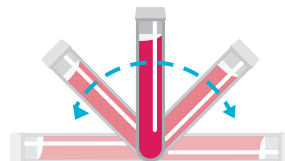


Blood draw instructions

- 1 Collect specimen by venipuncture, filling the provided Streck tubes completely



- 2 Mix by gentle inversion 8 to 10 times



- 3 Ensure tubes are labelled as instructed in step 2 on the following page



Do not refrigerate or freeze blood samples

Shipping instructions

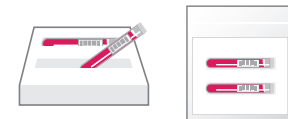
- 1 Complete the Test Requisition Form (TRF)



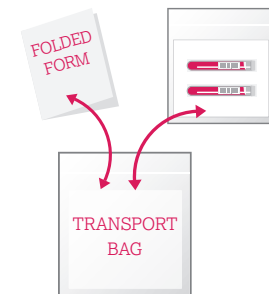
- 2 Fill out labels on each tube including:
 - Patient name
 - Hospital number
 - Date of birth (dd/mm/yyyy)
 - Collection date (dd/mm/yyyy)



- 3 Place filled blood tubes into the plastic mailer, ensuring the lid is securely fastened



- 3 Fold and insert the TRF and samples into the plastic sample transport bag. Samples should be received within 48 hours of venepuncture following UN3373 sample transport regulations.



Please send back to:
Clinical Genomics | Centre for Molecular Pathology | The Royal Marsden |
10 Oakleaf Avenue | Sutton | Surrey SM2 5GP