

KRAS, EGFR and BRAF Mutation Tests - Sample Preparation

For the above tests we require 3 sections of a formalin fixed, paraffin-embedded tumour tissue sample. Please see notes below when taking the samples. The KRAS and EGFR mutation analysis tests are CE marked under the European IVD Directive 98/79/EC.

Notes for preparing formalin fixed, paraffin embedded tissue samples

- Ideally choose a block containing plenty of tumour material (>20%).
- Safeguards should be undertaken to prevent sample-to-sample DNA contamination. Rigorous cleaning of the microtome, microtome blade, and any equipment used in the sectioning area should be completed between the sampling of each block.

This can be accomplished by carefully cleaning the microtome blade using gauze dipped in freshly diluted 10% bleach. The bleach wash should be followed by an ethanol rinse to prevent corrosion of the microtome blade. After each use the blade must be removed and carefully wiped clean of any debris with another clean, bleach-soaked gauze. Any tissue remaining on the block may easily contaminate the next sample. Disposable blades provide the greatest protection from block-to-block contamination.

- It is essential to change gloves between the cleaning of the microtome and the sectioning of each new block.
- Once the microtome has been thoroughly cleaned, the first section is taken to expose a PCR 'clean' surface. As a minimum, **3 replicate sections** (5-20µm) should be cut from each block, and two sections placed in each of the sterile 1.5 ml microcentrifuge tubes supplied in the kit. The thickness of the sections depends on the size of the tissue.
- For a small biopsy samples (2-3mm), 10µm to 20µm sections may be required, whereas larger tissue samples (5 x 5mm) can be sectioned at µm. Although multiple thin sections can be placed in a single tube, thicker sections are more practical for processing.

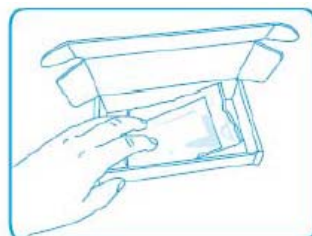
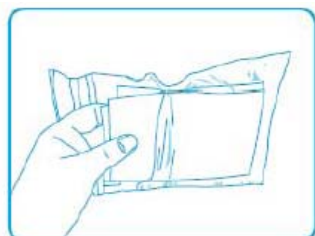


- **You must** fill out the sample identification labels and attach them to the samples. Both test request form and samples must have **3 unique and corresponding identifiers for testing to commence** (first name, last name, date of birth).

PLEASE NOTE: We do not require any histopathology report or documentation associated with this tumour sample.

Packaging instructions for returning the samples to Lab21

1. Place the sample tubes containing the sample tumour sections into the biohazard bag provided in the kit and seal the bag as per the instructions. Place the sealed bag with the samples into the cardboard return mailer (kit box). Ensure that all paperwork has been fully completed and enclosed with the sample.
2. Seal the lid of the box with the security label provided in the kit.



3. UK customers should post back to Lab21 using the Freepost label provided on the reverse of the return mailer box. If outside the UK please contact Lab21 for advice on a suitable courier to return the sample. Alternative shipping option: If your hospital is a member of the DX network you can send samples using your hospital account to: Lab21, Dx 6055300, Cambridge 94 CB.

Return address: Lab21 Ltd, 184 Cambridge Science Park, Cambridge, UK CB4 0GA
 Customer support: +44 (0)1223 395458 Email: info@lab21.com