

EGFR T790M Mutation Detection in Circulating Tumor DNA by Digital Droplet PCR (ARUP Test Code 2012868)

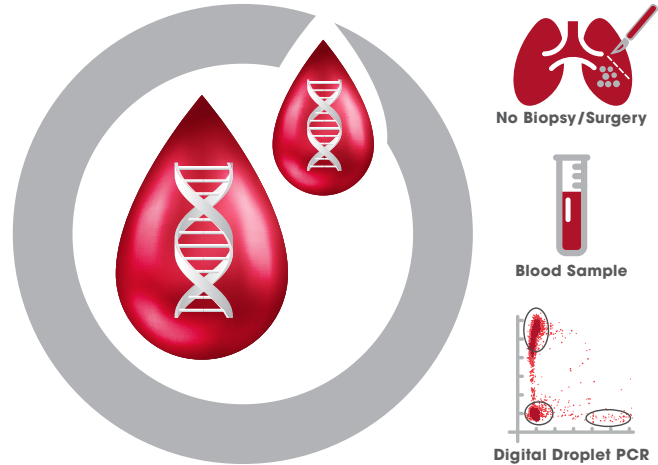
Circulating tumor DNA (ctDNA) testing provides a rapid, minimally invasive blood test alternative to traditional biopsy or resection tissue analysis of *EGFR* T790M mutation status in non-small cell lung adenocarcinoma.

This test is ideally suited for testing blood plasma or cerebrospinal fluid to:

- Detect *EGFR* T790M drug-resistant mutation at initial diagnosis or recurrence of non-small cell lung adenocarcinoma.
- Provide quantitative, highly-sensitive (0.5–< 0.01% mutant allele frequency*) monitoring of therapeutic response or disease progression in patients eligible for *EGFR* T790M-specific tyrosine kinase inhibitors (TKIs).

* Based upon the amount of amplification DNA, the limit of detection ranges from 0.5% to less than 0.01% mutant alleles.

EGFR T790M MUTATION DETECTION IN CIRCULATING TUMOR DNA



For more information about *EGFR* T790M Mutation Detection in Circulating Tumor DNA, visit:

aruplab.com/T790M

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Typical Testing Strategy

In patients with *EGFR* gene mutations who are treated with early generation TKIs, consider monitoring for development of an acquired *EGFR* T790M mutation.

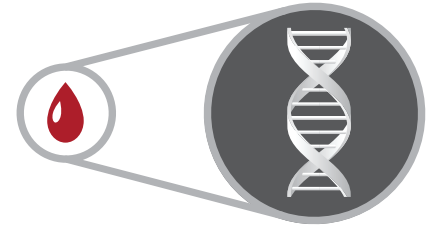
Blood Plasma

- Serial quantitative testing
 - Guides clinical treatment decisions about acquired resistance to early generation TKIs and switching to *EGFR* T790M-specific TKIs.
 - Monitors response to therapy in patients taking *EGFR* T790M-specific TKIs.

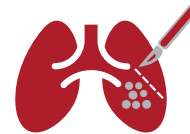
Cerebrospinal Fluid

- Serial quantitative testing for patients with isolated non-small cell lung cancer brain metastases and undetectable blood plasma levels of *EGFR* T790M mutation.
 - Guides clinical treatment decisions about switching to *EGFR* T790M-specific TKIs.
 - Monitors response to therapy.

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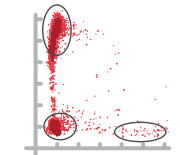
VEIN



No Biopsy/Surgery



Blood Sample



Digital Droplet PCR

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