

EGFR Mutation Analysis

Effective Date: July 26, 2016

The Molecular Pathology Laboratory in Beaumont Royal Oak's Department of Pathology and Laboratory Medicine will offer a real-time PCR assay for the detection of clinically actionable mutations in the EGFR gene for patients with adenocarcinoma of the lung.

Synonyms	Epidermal Growth Factor Receptor EGFR Mutation Analysis Tyrosine kinase inhibitor TKI
Instructions	Submit formalin fixed, paraffin embedded tumor tissue block with corresponding H&E stained slide (blank slides and paraffin shavings not accepted).
Specimen Collection Criteria	Maintain paraffin-embedded tissue at room temperature (20-25°C or 68-77°F). DO NOT REFRIGERATE OR FREEZE TISSUE BLOCKS
Specimen Preparation for Courier Transport	Transport tissue blocks at room temperature (20-25°C or 68-77°F).
Rejection Criteria	Specimens that are treated with decalcifying agents or fixatives other than 10% neutral-buffered formalin, or that have been improperly labeled will not be tested.
Performed	Once per week, usually Thursday Results available in 10 business days
Reference Range	No EGFR mutations detected
Test Methodology	PCR (polymerase chain reaction) amplification of target sequences with real-time fluorescent detection
Interpretation	This test detects mutations in exons 18, 19, 20, and 21 of the EGFR gene that confer either sensitivity or resistance to select tyrosine kinase inhibitors. The range of mutations detected is consistent with recommendations from the CAP/IASLC/AMP guidelines.
Test Code	MEMUG
CPT Code(s)	81235, G0452

If you have questions, please contact Client Services (1-800-551-0488, option 5).

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Laboratory Test Directory: <http://beaumontlaboratory.com/test-lab-directory>.

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Beaumont Laboratory
Customer Service
1-800-551-0488