



Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



NGS Thyroid Profile for non-MTC

Methodology

Molecular

Test Description

The NGS Thyroid Profile for non-Medullary Thyroid Cancer (non-MTC) analyzes 26 genes using next-generation sequencing (NGS) and FISH as listed below. Test orders include summary interpretation of all results to help guide treatment decisions.

- NGS: AKT1, ALK, ARID1A, ATM, BRAF, CDKN2A, CTNNB1, ERBB2, ERBB4, HRAS, KRAS, MEN1, MET, NF1, NF2, NRAS, PIK3CA, PTEN, RET, SMAD4, SMO, SRC, TERT Promoter, TP53, TSC1, and TSC2
- FISH: RET

This test is available through the Lilly-sponsored Thyroid Cancer Testing Program only. A separate test request form is required. Please visit [Thyroid Cancer Testing Program](#) for more information and to download the Test Request Form.

Clinical Significance

The NGS Thyroid Profile for non-MTC is useful to classify fine needle aspirates of thyroid nodules that are indeterminate or suspicious on cytology. Presence of mutations or gene rearrangements as detected by FISH predicts malignancy with varying degrees of specificity depending on the gene mutated and histological subtype. BRAF mutation V600E is associated with poor prognosis in papillary thyroid carcinoma (PTC).

Specimen Requirements

- **FFPE tissue:** Paraffin block preferred. Please use 10% buffered formalin fixative. Do not use zinc fixatives.

Storage & Transportation

Use cold pack for transport. Make sure cold pack is not in direct contact with specimen.

New York Approved

No

Level of Service

Global

Turnaround Time

14 Days

*The CPT codes provided with our test descriptions are based on AMA guidelines and are for informational purposes only. Correct CPT coding is the sole responsibility of the billing party.

Please direct any questions regarding coding to the payor being billed.

NeoGenomics Laboratories is a specialized oncology reference laboratory providing the latest technologies, testing partnership opportunities, and interactive education to the oncology and pathology communities. We offer the complete spectrum of diagnostic services in molecular testing, FISH, cytogenetics, flow cytometry, and immunohistochemistry through our nation-wide network of CAP-accredited, CLIA-certified laboratories.

Committed to research as the means to improve patient care, we provide Pharma Services for pharmaceutical companies, in vitro diagnostic manufacturers, and academic scientist-clinicians. We promote joint publications with our client physicians. NeoGenomics welcomes your inquiries for collaborations. Please contact us for more information.

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