

**THYROGLOBULIN, TUMOR MARKER, FINE-NEEDLE ASPIRATION  
(FNA)-NEEDLE WASH, LYMPH NODE**  
Test ID: HTGFN

**EXPLANATION:** To facilitate testing and proper identification of fine-needle aspirates from multiple lymph node collection sites, Mayo Medical Laboratories is offering a new test that includes a collection site field to document and report the collection site or other specifics related to the fine-needle aspirate specimen.

**NOTE:** This test is replacing the TGFNA, Thyroglobulin, Tumor Marker, Fine-Needle Aspiration (FNA)-Needle Wash, Lymph Node which will become obsolete on February 5, 2013.

**USEFUL FOR:** An adjunct to cytologic examination of fine needle aspiration specimens in Athyrotic individuals treated for differentiated thyroid cancer, to confirm or exclude metastases in enlarged or ultrasonographically suspicious lymph nodes.

**METHODOLOGY:** Immunoenzymatic Assay

**REFERENCE VALUES:** < or =1.0 ng/mL

This cutoff has been validated for total needle wash volumes of < or =1.5 mL of normal saline. If wash volumes are substantially larger, a lower cutoff might apply.

**SPECIMEN REQUIREMENTS:**

**Container/Tube:** Sterile vial

**Collection Instructions:** After collection of the cytology specimens and expulsion of the material for smear or CytoTrap processing:

1. Wash/rinse each FNA needle from a **single lymph node nodule** with 0.1 to 0.5 mL of normal saline.
2. Pool each wash from a single lymph node nodule into 1 vial. If more than 1 nodule is biopsied, each nodule biopsy should be submitted as a separate specimen.
3. Inspect the specimen as follows:
  - If the specimen shows visible blood or tissue contamination, centrifuge the specimen. Transfer the supernatant to a new plastic vial. Freeze specimen.
  - If specimen is clear, freeze specimen in plastic vial.

**Additional Information:** If multiple lymph node testing is needed, submit each under a separate order. Clearly identify each specimen.

**SPECIMEN STABILITY INFORMATION:**

Specimen Type	Temperature	Time
Fine Needle Wash	Frozen (preferred)	7 days
	Refrigerated	7 days

**CAUTIONS:**

- Fine needle aspiration (FNA)-Tg should not be used to screen asymptomatic individuals for neoplastic disease.
- This test has been validated only in single lymph nodes from athyrotic patients. While the needle washes from several distinct needle passes or aspirations from a single node should be pooled, biopsies from different nodes should be submitted as separate specimens.
- For specimens from other sources, contact Mayo Medical Laboratories.
- Do not interpret FNA-Tg levels as absolute evidence of the presence or absence of malignant disease. Results should be used in conjunction with information from the clinical evaluation of the patient, cytology, and imaging procedures.
- Immunometric assays can, in rare occasions, be subject to interferences such as "hooking" at very high analyte concentrations (false-low results) and heterophilic antibody interference (false-high results). If the clinical picture does not fit the laboratory result, these possibilities should be considered. While autoantibody interference (typically false-low results in immunometric assays) is reported to not be an issue in FNA-needle wash specimens, the report was based on a small number of cases; therefore, the possibility of autoantibody interference should also be considered.
- Results are dependent on accurate sampling and a maximum needle wash volume of < or =1.5 mL.

**CPT CODE:** 84432**DAY(S) SET UP:** Monday through Friday, 5 a.m.-12 a.m., Saturday, 6 a.m.-6 p.m.**ANALYTIC TIME:** Same day/ 1 day

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or  
Greg Renkly, MML Laboratory Technologist Resource Coordinator  
Telephone: 800-533-1710