Laboratory:

DermPath Molecular Diagnostic Laboratory

Referral Laboratory:

Soft Order Code:

MDPFS

CPT code:

Synonyms:

SingleProbe FISH for Malignancy; FFPE FISH for Malignancy

Offsite Collection:

Submit a formalin-fixed, paraffin-embedded block of the tumor tissue or 4 formalin-fixed, paraffin-embedded (FFPE) unstained sections at 4-micron thickness placed on electrostatic-coated slides and one regular H&E obtained as serial sections are required for FISH. Store at room temperature. Cases with less than 30 tumor cells are not suitable for FISH.

Onsite Collection (UMHS Hospitals Only):

Submit a formalin-fixed, paraffin-embedded block of the tumor tissue or 2 formalin-fixed, paraffin-embedded (FFPE) unstained sections at 4-micron thickness placed on electrostatic-coated slides and one regular H&E obtained as serial sections are required for FISH. Store at room temperature. Cases with less than 30 tumor cells are not suitable for FISH. Please complete a MiChart test request and submit it with the specimen.

Days Set Up:

Monday - Friday, 8:30am - 5:30pm

Analytic Time:

1 week

Test Methodology:

Fluorescence In Situ Hybridization (FISH)

Reference Range:

*Reference ranges may change over time. Please refer to the original patient report when evaluating results.

Interpretive report provided.

Test Usage:

This test is used to aid in the diagnosis of difficult solid tumor lesions via fluorescence in situ hybridization (FISH) in formalin-fixed, paraffin-embedded tissue specimens. Three singleprobe FISH panels are available in DermPath Mol Diag Lab. Panel 1 include probes 9q21 (CDKN2A) and CEP9; panel 2 include 8q24 (MYC); panel 3 include 3p21 (BAP1) and CEP3. A minimum of 30 cells with visible signals are evaluated for the following parameters: percentage of cells with more than 2 signals per nucleus for 8q24, percentage of cells with fewer signals for 3p21 than for CEP3, percentage of cells with homozygous loss of 3p21, percentage of cells with monosomy loss of 3p21, and percentage of cells with homozygous deletions of 9p21. Nuclei considered tetraploid are excluded from the numerator, but included in the denominator. Homozygous loss of 9p21 or 3p21 are defined by absence of 9p21 or 3p21 and the presence of at least 1 signal for CEP9 or CEP3. A positive result is defined as exceeding the cut-off criteria of the probes.

Test Limitations:

This test detects copy number aberrations on specific chromosomal targets (3p21, 9p21, and 8q24) documented to have high correlation with malignant lesions, however it will not identify the aberrations in other non-targeted chromosomal segments.

Additional Information:

By ordering this test the clinician acknowledges that informed consent has been obtained from the patient as required by applicable state or federal laws. Test includes pathologist interpretation of results billed as a separate additional charge. This test is not available without interpretation.

CPT Code:

Inpatient Fee Code:

Outpatient Fee Code:

MLabs Fee Code:

Pro Fee CPT:

Pro Fee Code: