



<u>Procedure</u>	<u>Result</u>	<u>Units</u>	<u>Ref Interval</u>	<u>Accession</u>	<u>Collected</u>	<u>Received</u>	<u>Reported/Verified</u>
ALK FISH Result	Negative f			18-360-900045	26-Dec-18 13:38:00	26-Dec-18 13:38:00	26-Dec-18 13:47:22
ALK FISH Reference Number	S18-234			18-360-900045	26-Dec-18 13:38:00	26-Dec-18 13:38:00	26-Dec-18 13:47:22
ALK FISH Source	Tissue			18-360-900045	26-Dec-18 13:38:00	26-Dec-18 13:38:00	26-Dec-18 13:47:22
Total Cell Count	100			18-360-900045	26-Dec-18 13:38:00	26-Dec-18 13:38:00	26-Dec-18 13:47:22
Scoring Method	Manual			18-360-900045	26-Dec-18 13:38:00	26-Dec-18 13:38:00	26-Dec-18 13:47:22

26-Dec-18 13:38:00 ALK FISH Result:

Controls were run and performed as expected.
 This result has been reviewed and approved by Barbara Chadwick, M.D.

26-Dec-18 13:38:00 ALK FISH Result:
 METHODOLOGY AND INTERPRETIVE DATA:

Fluorescence in situ hybridization (FISH) analysis was performed on a section from a paraffin embedded tissue block using differentially labeled fluorescent probes targeting the upstream (5') and downstream (3') flanking regions of the ALK gene (Agilent Dako SureFISH). Cells were evaluated from regions of tumor identified on histopathologic review of a matching hematoxylin and eosin stained section. Controls performed appropriately.

This test is designed to detect rearrangements involving the ALK gene, but it does not identify a specific partner gene. An abnormal signal pattern seen in 15 percent or more of the evaluated tumor cells is considered a positive result. ALK rearrangements occur in approximately 4-6 percent of lung adenocarcinomas. Detection of an ALK rearrangement is useful for predicting tumor response to targeted therapy.

Reference:

Takeuchi K et al. RET, ROS1 and ALK fusions in lung cancer. Nat Med. 18(3):378-381, 2012.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement A: aruplab.com/CS.

* Abnormal, # = Corrected, C = Critical, f = Footnote, H = High, L = Low, t = Interpretive Text, @ = Reference Lab