



<u>Procedure</u>	<u>Result</u>	<u>Units</u>	<u>Ref Interval</u>	<u>Accession</u>	<u>Collected</u>	<u>Received</u>	<u>Reported/</u> <u>Verified</u>
ROS1 FISH Result	Positive f			18-347-900151	13-Dec-18	13-Dec-18	19-Dec-18
ROS1 FISH Reference Number	357			18-347-900151	11:40:00	11:40:00	16:34:07
ROS1 FISH Source	lung			18-347-900151	13-Dec-18	13-Dec-18	19-Dec-18
Total Cell Count	100			18-347-900151	11:40:00	11:40:00	16:34:07
Scoring Method	Manual			18-347-900151	13-Dec-18	13-Dec-18	19-Dec-18
					11:40:00	11:40:00	16:34:07

13-Dec-18 11:40:00 ROS1 FISH Result:
 Controls were run and performed as expected. This result has been reviewed and approved by Dan Albertson, M.D.

13-Dec-18 11:40:00 ROS1 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 ROS1 gene (Abbott Molecular). 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 ROS1 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.

ROS1 rearrangement occurs in approximately 1 percent of non-small cell lung carcinomas. Detection of a ROS1 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