



<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>
FUS FISH Result	Positive f			18-162-900018	11-Jun-18 09:11:00	11-Jun-18 09:11:00	11-Jun-18 09:51:31
FUS FISH Reference Number	1234			18-162-900018	11-Jun-18 09:11:00	11-Jun-18 09:11:00	11-Jun-18 09:51:31
FUS FISH Source	Test			18-162-900018	11-Jun-18 09:11:00	11-Jun-18 09:11:00	11-Jun-18 09:51:31
Total Cell Count	100			18-162-900018	11-Jun-18 09:11:00	11-Jun-18 09:11:00	11-Jun-18 09:51:31
Scoring Method	Manual			18-162-900018	11-Jun-18 09:11:00	11-Jun-18 09:11:00	11-Jun-18 09:51:31

11-Jun-18 09:11:00 FUS FISH Result:
 Controls were run and performed as expected. This result has been reviewed and approved by Dan Albertson, M.D.

11-Jun-18 09:11:00 FUS FISH Result:
 INTERPRETIVE INFORMATION: FUS (16p11) Gene Rearrangement
 by FISH

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 FUS gene (Abbott). 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 translocations involving the FUS gene, but it does not identify a specific partner gene. An abnormal signal pattern seen in 25 percent or more of the tumor cells evaluated is considered a positive result.

Identification of a rearrangement of the FUS gene locus is most useful for distinguishing myxoid liposarcoma/round cell liposarcoma and low-grade fibromyxoid sarcoma from other soft tissue tumors in their respective differential diagnoses. Rearrangements are less frequently encountered in a variety of other soft tissue neoplasms, and correlation with clinical and histopathologic findings is necessary for a complete diagnosis, therefore.

Reference:

Downs-Kelly E, Goldblum JR, Patel RM, et al. The utility of fluorescence in situ hybridization (FISH) in the diagnosis of myxoid soft tissue neoplasms. Am J Surg Pathol. 2008 Jan;32(1):8-13.

Fletcher DM, Bridge JA, Hogendoorn P, Mertens F, Eds. WHO Classification of Tumours of Soft Tissue and Bone, 4th Ed. Lyon: IARC, 2013.

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