



<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>
TFE3 Ref Number				20-077-900153	17-Mar-20	17-Mar-20	17-Mar-20
TFE3 Source	Lung			20-077-900153	17-Mar-20	17-Mar-20	17-Mar-20
TFE3 Result	<b>Positive *f</b>			20-077-900153	17-Mar-20	17-Mar-20	17-Mar-20
Total Cell Count	100			20-077-900153	17-Mar-20	17-Mar-20	17-Mar-20
Scoring Method	Manual			20-077-900153	17-Mar-20	17-Mar-20	17-Mar-20

17-Mar-20 19:35:00 TFE3 Result:

This result has been reviewed and approved by Joshua F. Coleman, M.D. Controls performed as expected.

17-Mar-20 19:35:00 TFE3 Result:

INTERPRETIVE INFORMTION: TFE3 Gene Rearrangements 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 TFE3 gene (ZytoVision GmbH). 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 TFE3 gene but does not identify a specific translocation partner. An abnormal signal pattern seen in 15 percent or more of the tumor cells evaluated is considered a positive result. While this test can detect most rearrangements it may not be able to detect rare cryptic rearrangements and intrachromosomal inversion events, such as a RBM10-TFE3 fusion.

Identification of a rearrangement of the TFE3 gene locus is useful for the diagnosis of Alveolar Soft Part Sarcoma (ASPS) and Xp11 Translocation Renal Cell Carcinoma. TFE3 rearrangements are also identified in other neoplasms, including perivascular epithelioid cell tumors (PEComa) and epithelioid hemangioendotheliomas (EHE).

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