ARUP LABORATORIES
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Jonathan R. Genzen, MD, PhD, Chief Medical Officer

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB	4/20/1952
Gender:	Male
Patient Identifiers:	01234567890ABCD, 012345
Visit Number (FIN):	01234567890ABCD
Collection Date:	00/00/0000 00:00

EWSR1 (22q12) Gene Rearrangement by FISH

ARUP test code 3001305

EWSR1 FISH Result	Positive Controls were run and performed as expected. This result has been reviewed and approved by Cameron Beech, M.D.
Total Cell Count	100
Scoring Method	Manual
EWSR1 FISH Reference Number	S23-1390 A1
EWSR1 FISH Source	RU Lip

H=High, L=Low, *=Abnormal, C=Critical

INTERPRETIVE INFORMATION: EWSR1 (22q12), 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 EWSR1 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 EWSR1 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. Based on the assay performance during test validation, the test is expected to detect 100 percent of EWSR1 rearrangements in patients with EWSR1 rearranged tumors, except for rare instances of cryptic rearrangements. Assay range and limit of detection were generated using normal and known positive cases respectively.

Identification of a rearrangement of the EWSR1 gene locus is useful for diagnosis among the Ewing family of tumors. EWSR1 rearrangements can also be found in certain other tumors, including clear cell sarcoma, desmoplastic small round cell tumor, extraskeletal myxoid chondrosarcoma, myxoid liposarcoma, rhabdomyosarcoma, and angiomatoid fibrous histiocytoma. Correlation with histopathologic and clinical findings is, therefore, essential for complete interpretation of this study.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
EWSR1 FISH Result	23-040-402661	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Cell Count	23-040-402661	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Scoring Method	23-040-402661	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EWSR1 FISH Reference Number	23-040-402661	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EWSR1 FISH Source	23-040-402661	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical