

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 1/14/1952  
**Gender:** Unknown  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**ROS1 by FISH**  
ARUP test code 3001308

ROS1 FISH Result

Negative

This result has been reviewed and approved by [REDACTED]  
[REDACTED] Controls performed as expected.

INTERPRETIVE INFORMATION: ROS1, 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 ROS1 gene (Agilent Technologies). 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. Based on the assay performance during test validation, the test is expected to detect 100 percent of ROS1 rearrangements in patients with ROS1-rearranged carcinomas, except for rare instances of cryptic rearrangements. Assay range and limit of detection were generated using normal and known positive cases respectively.

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.

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.

ROS1 FISH Reference Number SS-21-5841 A1

ROS1 FISH Source Lung

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

Total Cell Count 100

Scoring Method Manual

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
ROS1 FISH Result	21-210-120079	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ROS1 FISH Reference Number	21-210-120079	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ROS1 FISH Source	21-210-120079	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Cell Count	21-210-120079	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Scoring Method	21-210-120079	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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 21-210-120079  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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