

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 3/3/2010
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

MYCN (N-MYC) Gene Amplification by FISH

ARUP test code 3001307

MYCN FISH Result

Not Amplified

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

INTERPRETIVE INFORMATION: MYCN (N-MYC), FISH

Fluorescence in situ hybridization (FISH) analysis for MYCN gene amplification was performed on a section from a paraffin embedded tissue block using differentially labeled fluorescent probes targeting the MYCN gene and the chromosome 2 centromere (CEP2) (Abbott Molecular). Cells were evaluated from regions of tumor identified on histopathologic review of a matching hematoxylin and eosin stained section. Controls performed appropriately.

MYCN amplification (MYCN/CEP2 ratio of 2.0 or greater) is considered a feature of high-risk disease and an indicator of poor prognosis in neuroblastoma. Amplification is also seen in SHH-activated and group 4 medulloblastomas with implications for prognosis and therapy response. Based on the assay performance during test validation, the test is expected to detect MYCN amplification status correctly in 100 percent of patients. Assay range and limit of detection were generated using normal and known positive cases respectively.

Reference:

Louis DN, Ohgaki H, Wiestler OD, Cavenee WK, Ellison DW, Figarella-Branger D, Perry A, Reifenberger G, von Deimling A, Eds. WHO Classification of Tumours of the Central Nervous System, Revised 4th Edition. Lyon, France: International Agency for Research on Cancer, 2016.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement A: aruplab.com/CS.

MYCN/CEP2 FISH Ratio 1.1

Average MYCN Signal Number per Cell 1.7

Average CEP2 Signal Number per Cell 1.6

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

Unless otherwise indicated, testing performed at:

MYCN FISH Reference Number CHSP20-2416 1A

MYCN FISH Source Not Provided

Total Cell Count 40

Scoring Method Manual

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
MYCN FISH Result	20-357-400774	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MYCN/CEP2 FISH Ratio	20-357-400774	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Average MYCN Signal Number per Cell	20-357-400774	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Average CEP2 Signal Number per Cell	20-357-400774	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MYCN FISH Reference Number	20-357-400774	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MYCN FISH Source	20-357-400774	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Cell Count	20-357-400774	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Scoring Method	20-357-400774	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: 20-357-400774
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Page 2 of 2 | Printed: 6/25/2021 1:43:13 PM
4848