PATIENT DETAILS

FLUORESCENT IN SITU HYBRIDIZATION (FISH)

[redacted]

CYTOGENETICS DEPARTMENTS REFERENCE ID

CYG - 25 - PB- 378

TEST REQUESTED

POSTNATAL - 5 MARKER

FLUORESCENT IN SITU HYBRIDIZATION (FISH) [ISCN2020]

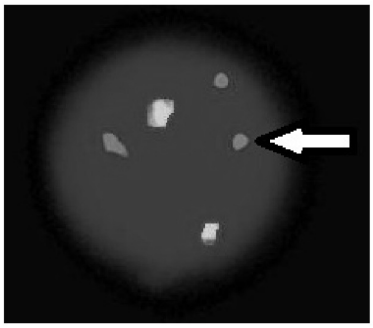
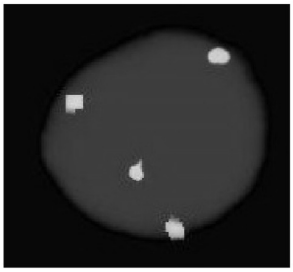
Sample Type	Clinical Indication	Test Requested	Method
Peripheral blood	Not provided	FISH for 13, 21, 18, Sex chromosomes	FISH
Sample Quality	**Probe Details**	**Ref Range**	**No Of cells**
Good	SPEC(Wuhan Health care) FISH for five markers (13, 18, 21 and sex chromosomes)	chromosome 21 = 3% chromosome 18 = 2% chromosome 13 = 2% Sex chromosome = 2%	200

RESULTS TABLE

S.No.	Result (ISCN2020)	chromosome Loci/Color	No. of Cells	Result
1	nuc ish (RB1,D18S887/D18S881/D18S529) D21S1917/D21S341/D21S 339)x2	Red (chromosome 21) - 3 Green (chromosome 13) - 2 Blue (chromosome 18) -2	200/200	**Positive for Trisomy 21**
2	nuc ish (DXZ1)×2,(DYZ3)×0	Green (chromosome X) - 2	200/200	Negative

FISH IMAGES

PATIENT DETAILS

	
LSI 21q22.1-q22.2 - spectrum Red LSI 13q34.2 (RBI gene) - spectrum	18p21.3 - (D18ZI) - Blue

INTERPRETATION

Fluorescence In Situ Hybridization (FISH) of direct harvesting of Female peripheral blood sample revealed the presence of an additional copy of chromosome 21, suggestive of trisomy 21(Down Syndrome) and no evidence of aneuploidy of chromosomes 13,18 and sex chromosomes in any of the interphase cells scored.

REFERENCES

1. An International System for Human Cytogenetic Nomenclature (2020). Karger Publishers.
2. Human Cytogenetics: Constitutional Analysis. A Practical Approach. Third Edition, Edited by Denise Rooney.

Note: Kindly note that aneuploidy of other chromosomes, structural abnormalities have not been ruled out by this analysis.

DISCLAIMER

1. FISH is a spatial detection and quantification of cellular DNA only and not meant for cell free DNA.
2. FISH is limited to labeling of the complete set of 24 different chromosomes and derived from the 24 chromosomes, and detection of structural and numerical aberrations.
3. The clinical interpretation of any test results is made in conjunction with other diagnostic procedures and patient medical history.
4. This test is not going to provide information about any other chromosomes /loci not listed in the report.
5. A negative report does not exclude the presence of other chromosomal alterations other than that tested.

FISH results should be evaluated in the context of the patient's medical history and other lab reports.

PATIENT DETAILS

*** End Of Report ***

Approved by

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