

Mr. VIKRAM SINGH AMBALA, AMBALA Tel No: 8607344999

PIN No: 133001

PID NO: P542100640812 Age: 30.0 Year(s) Sex: Male Reference: Dr.VINAY CHOPRA

Sample Collected At: Dr vinay kumar chopra

Kos diagnostic lab, 6349/i, nicholson road, ambala cantt, hry 133001.

PROCESSING LOCATION:- Metropolis Healthcare Ltd, Unit No. 409- 416, 4th Floor, Commercial Building-1, Kohinoor Mall, Mumbai-70 VID: 54213320015844

Registered On: 11/08/2021 11:24 PM

Collected On: 13/08/2021 2:41AM

Reported On: 25/08/2021 06:10 PM

## Karyotyping by G-Banding Peripheral Blood

INTERNAL LAB NO. 5843-21-K

**CULTURE METHOD** 72-hour stimulated cultures were put up with appropriate mitotic agents.

**BANDING METHOD(S)** GTG-Banding with Trypsin & Giemsa with 450-550 bands pattern (ISCN-2016).

CLINICAL INDICATION(S) Infertility

NO.OF CELLS COUNTED 20

NO.OF CELLS ANALYZED 20

NO.OF CELLS KARYOTYPED 10

KARYOTYPE RESULT 46,XY

**INTERPRETATION** Normal Karyotype.

**COMMENTS**No numerical or structural abnormalities detected at the band resolution

achieved.

**RECOMMENDATION(S)**Kindly correlate clinically. For any queries please feel free to contact at

Department of Medical Genetics on 022-43560767.

Karyotype analysis detects all numerical and gross structural anomalies within the limits of the assay procedure. Microdeletions, microduplications, single gene disorders and low grade mosaicismhowever would not be ruled out. FISH/CMA/Molecular studies are recommended for the same.Clinical correlation is advised.

## **Note: Importance of Clinical Indicatons**

- 1. Clinical details/history findings including age and sex of patient are important for accurate selection of culture method
- 2. Clinical details to be provided in the form of ultrasound information / phenotypic features / family history, etc.
- 3. For investigation of mosaicism which requires screening of large number of metaphase cells.
- 4. To target analysis for a particular chromosome in the form of high resolution banding.
- 5. For recommendation of further investigation eg: FISH, Molecular Genetics Studies. Genetics abnormalities like single gene / polygenic disorders, microdeletions, subtle rearrangements, low grade mosaicism may not be detected by G-Band Karyotyping and may require more sensitive testing like FISH and Chromosomal Microarray.

**Dr. Jaya Vyas**PhD Applied Biology
Sr Consultant, Medical Genetics

Kundanbala Desai

Consultant Analyst - Medical Genetics

Metropolis - Mumbai



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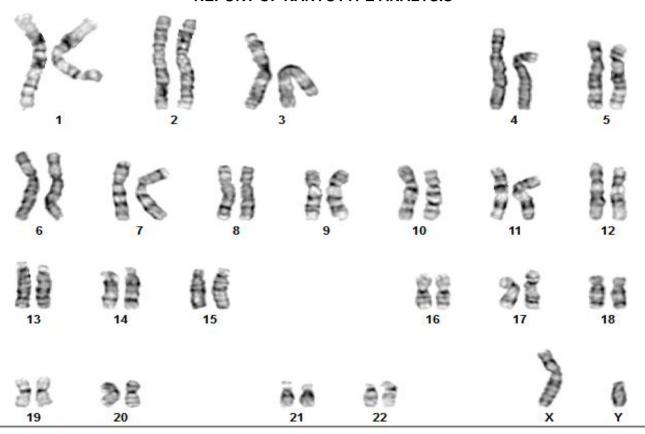
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## REPORT OF KARYOTYPE ANALYSIS



KARYOTYPE RESULT : 46,XY

**BAND RESOLUTION** : 550



Note: Results are interpreted on basis of all metaphases analyzed. This Karyotype is only a representation

-- End of Report --

Dr. Jaya Vyas PhD Applied Biology

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Kundanbala Desai

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Metropolis - Mumbai