

Other Key Tests :

- Chromosome Analysis, Karyotype, Blood
- Chromosome Analysis, High Resolution, Neonatal
- Chromosome Analysis, Amniotic Fluid
- Chromosome Analysis, Chorionic Villus
- FISH Amnio One Probe (Trisomy 21/Down Syndrome)

Help your  
patients put their  
dreams together



Introducing for the first time in India,  
**CHROMOSOME INTERPHASE PROFILING,**  
**PRODUCTS OF CONCEPTION** test  
with ICP technology

 *Dr Lal PathLabs*

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Dr Lal PathLabs presents for the first time in India,  
**CHROMOSOME INTERPHASE PROFILING, PRODUCTS OF CONCEPTION**

**Salient features of ICP technology**

- ▶ Since ICP is failure-proof and can detect both numerical and structural aberrations including Robertsonian translocations, it should be the first choice of method in the investigation of POC (Products of Conception) samples.
- ▶ Individual chromosomes are studied in their uncondensed state in an interphase nucleus using a panel of FISH probes that target DNA sequences in an equidistant fashion along the entire length of the chromosome using only three fluorophores for each chromosome arm.
- ▶ The resolution obtained with the ICP approach is approximately 600 bands, sufficient to detect numerical changes and all clinically relevant structural abnormalities from POC samples.

**Advantages over Conventional Karyotyping**

- Fast TAT: Result will be reported within 7 days of receiving sample in laboratory.
- Very sensitive: Can detect almost all the structural and numerical abnormalities which causes missed abortions and recurrent abortions such as balance translocations which were not possible to detect other than conventional karyotyping by any other sensitive technique such as Array-CGH.
- Failure-proof: ICP is almost 100% failure proof, there are minimum chances of missing any case.
- Cost-effective: Multiple reflex testing can be avoided as it is a one-stop shop for all POC problems.

**Sample Requirement**

Submit 5 mg (2 mg. min) Placental tissue OR Fetal tissue (Facia lata / diaphragm / tendon / skin / tissue from internal organs (if fresh) / chest wall cartilage particularly if macerated) in Normal saline / 10% Formalin. Ship refrigerated. DO NOT FREEZE.

**Method**

Fluorescence In-Situ Hybridization (FISH)

**Report**

Sample Daily by 4 pm; Report 7 days\*\*

Some dreams shouldn't  
remain incomplete



\*\*Conditions apply: Specimen must reach Dr Lal PathLabs, Rohini, New Delhi

**Interphase Chromosome Profiling in the Workup of Products of Conception and Hematologic Malignancies. Time to do away with Classical Karyotype?\*\*\***

Method	Number failed	Normal	Abnormal	Abnormal and revised	Total
Cytogenetics	30	12	26	NA	68
ICP	0	26	31	11	68

**Details of discordant normal, abnormal & abnormal/revised and redefined cases**

Discordant category	Cytogenetic results	ICP results
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**Normal**

	Female (could be due to maternal cell contamination)	Male/Female
1.	Triploidy	Triploidy with balance translocation 12;18
2.	Tetraploidy	Tetraploidy
3.	Low level mosaicism	Normal

**Abnormal**

	Normal	Abnormal
1.	Normal	Deletion 13q
2.	Normal	Double trisomy (13 and 16)
3.	Normal	Triple trisomy (13,16 and 21)
4.	Normal	Quadruple trisomy (4, 16, 21 and 22)
5.	Normal	Monosomy (13)
6.	Normal	Monosomy (13)
7.	Normal	Monosomy (22)

**Abnormal and Revised**

	Normal	Abnormal and Revised
1.	Normal	der (13;14)
2.	der (13;21)	der (13;21),+21
3.	Normal	t (2;12)
4.	Normal	del (3p)
5.	Tetraploidy	Tetraploidy with t (1;22)
6.	Triploidy	Triploidy wit der (22;22)
7.	Tetraploidy with deletion 2	Tetraploidy with t (2;11)
8.	Normal	Monosomy 4
9.	Normal	Trisomy 8
10.	Normal	Deletion 14q
11.	Normal	der (21;21)

\*\*\*Paper presented by Babu VR1 , Dev VG2 , Koduru P 3 , Rao N4 , Mitter N5 , Liu M2 , Fuentes E 1 , Fuentes S 1 , Papa S 1 and Van Dyke DL