

What are chromosomes?

Chromosomes are thread-like structures of genetic information that are contained inside within the cells in our body. Most cells in our body contain a full set of 23 pairs of chromosomes and each chromosome contains genes essential for our growth, development and healthy function. Genes are made up of DNA, which is packaged into larger structures called chromosomes, that each contain thousands of functional genes. Genes provide specific instructions for our body to grow, develop and function.

What are Karyotype?

A karyotype is a profile or ‘picture’ of a person’s chromosomes. Karyotyping, also known as chromosome analysis or chromosome studies, examines the size, quantity and arrangement of our chromosomes. As some chromosome changes are associated with health conditions and fertility challenges, a karyotype can be a useful way of finding out if an individual has a normal quantity and arrangement of chromosome material.

Advantages of FISH & Karyotyping

High Sensitivity and Specificity: FISH provides precise localization of specific sequences within chromosomes.

Versatility: It can be applied to a variety of sample types, including blood, bone marrow and tissue biopsies.

Rapid Results: The technique can yield results relatively quickly compared to other cytogenetic methods.

Comprehensive View: Provides a complete overview of an individual’s chromosomes, allowing for the detection of various types of chromosomal abnormalities.

Standardized Technique: Well-established with standardized procedures and interpretations.

Diagnostic Value: Crucial for diagnosing a wide range of genetic disorders and cancers.

Our Test Lists

Test Name	Sample Type	Test Code	Sample Volume	Method	Sample Container	TAT
Karyotyping Reflex FISH(13,18,21,X,Y) - Chorionic Villi	Chorionic Villus Sampling (CVS)	TLCG034	20-30 mg	Karyotyping, Reflex FISH	CVS in Sterile Normal Saline	23 Days
Karyotyping / Chromosome Analysis - POC	Products of Conception	TLCG082	Minimum 1 gm tissue in Normal Saline	Karyotyping	Sterile Container	22 Days
Parental Karyotyping for Couples	Whole Blood -Na Heparin	TLCG081	3 ml	Karyotyping	Whole Blood Sodium Heparin (Green Top)	14 Days
Prenatal Panel -Amniotic Fluid	Amniotic Fluid	TLPR209	15-20 ml	FISH & Cytogenetics	Sterile Container	08 Days
Spectral Karyotyping (SKY)	Whole Blood -Na Heparin	TLCG058	3 ml	M-FISH	Whole Blood Sodium Heparin (Green Top)	17 Days
Karyotyping by High Resolution Banding (HRB)	Whole Blood -Na Heparin	TLCG033	3ml	Karyotyping & Microscopy	Whole Blood Sodium Heparin (Green Top)	14 Days

For any other queries call Customer Care: 1800 599 5656

Follow us for more updates