XEX+ B10SCIENCES

PGT-APreimplantation Genetic Testing for Aneuploidy



Euploid/Aneuploid:

Samples reported as euploid have been found to be chromosomally normal within the limitations of Preimplantation Genetic Testing for Aneuploidy (PGT-A). Samples reported as aneuploid have been found to contain at least one aneuploid chromosome and is an ahnormal result.

Gain and Loss:

Segmental aneuploidy indicates the presence of an extra or missing region of a chromosome respectively, but does not involve the entire chromosome. This is considered an abnormal result.

Complex Abnormal:

The diagnosis of "complex abnormal" refers to embryo biopsy samples that demonstrate three or more chromosomal aneuploidies.



Mosaicism:

The term "mosaicism" describes the occurrence of two or more genetically distinct populations of cells within an embryo biopsy sample. "High level" denotes an estimated level of mosaicism >40-80%, and "Low level" denotes an estimated level of mosaicism of 20-40%. Levels of mosaicism estimated to be lower than 20% are not reported as they are not considered to be significant. Complex mosaic denotes three or more high/low level mosaicism occurrences.

No Result:

Individual samples reported as "No Result" did not yield a result, due to one of the following possible reasons: [1] The absence of intact DNA in the biopsy tube for analysis, [2] The failure to amplify DNA within the biopsy sample due to inadequate sample quality, or [3] an individual sample that amplified adequately but which did not meet assay quality control criteria, consequently the data could not be interpreted.

Gender:

Next Genetics PGT-A reports include information on aneuploidy and copy-number variation for all chromosomes including X and Y. In some countries (e.g. South Africa*) it is unlawful to use this information for social sex selection. It is the responsibility of the ordering physician to use these data in accordance with applicable laws in their jurisdiction. [*South African Government Gazette 501: 2 March 2012, #35099, page 14, Item 13].