# PGT-A <br> Preimplantation 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 abnormal 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].

