

Date Reported: Tuesday, September 21, 2021

Cell Line Sex: Male

Cell Line: Sample Report

Reason for Testing: LOT_RELEASE

Submitted Passage #: 22

Date of Sample: 9/16/2021

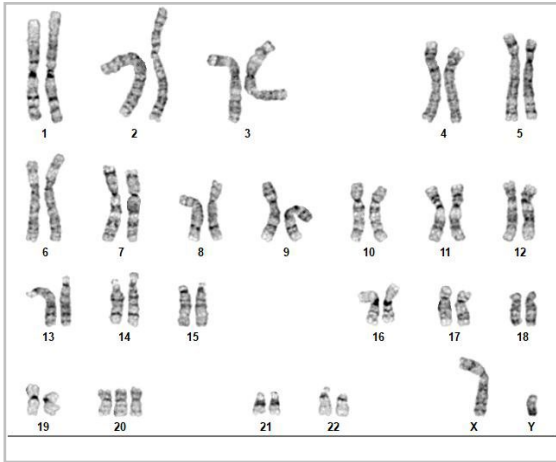
Investigator: WiCell Stem Cell Bank, WiCell

Specimen: Human iPSC

Results: 47,XY,+20[8]/46,XY[12]

Results: The results listed using the International System for Human Cytogenomic Nomenclature (ISCN).

Counted: All cells are counted to confirm they are a normal diploid number of 46 (in humans) and that there are two of each chromosome present. We can also spot structural abnormalities while counting.



Cell: 3
Slide: G02
Slide Type: Karyotype

Analyzed: Cells in which the chromosomes are compared band by band to their homologues. This aids in the detection of subtle structural abnormalities.

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 400 - 475

Karyogrammed: Cells in which the chromosomes are cut apart and arranged with their homologous partner using our imaging software. The image used on the report is of a single cell from the most representative population.

Band Resolution: The band level, or an estimation of the number of bands in a haploid genome, according to ISCN.

Interpretation: A more in depth explanation of the results and whether the sample is normal or abnormal.

Interpretation:

This is an abnormal karyotype. An extra copy of chromosome 20 (trisomy 20) is present in eight of twenty cells examined. Gain of chromosome 20 is recurrently acquired in pluripotent stem cell cultures. No other clonal abnormalities were detected at the stated band level of resolution.

Completed by: TECHNOLOGIST NAME

Reviewed and Interpreted by: DIRECTOR NAME

Date: _____ **Sent By:** _____ **Sent To:** _____ **QC Review By:** _____

Limitations: This assay allows for microscopic visualization of numerical and structural chromosome abnormalities. The size of structural abnormality that can be detected is >3-10Mb, dependent upon the G-band resolution obtained from this specimen. For the purposes of this report, band level is defined as the number of G-bands per haploid genome. It is documented here as "band level", i.e., the range of bands determined from the four karyograms in this assay. Detection of heterogeneity of clonal cell populations in this specimen (i.e., mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

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