

## iCS-digital™ PSC test report

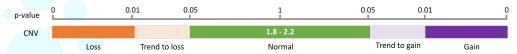
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PURCHASE ORDER (DATE)	REMAINING TEST(S)
QUOT231213-5 (19/01/2024)	13

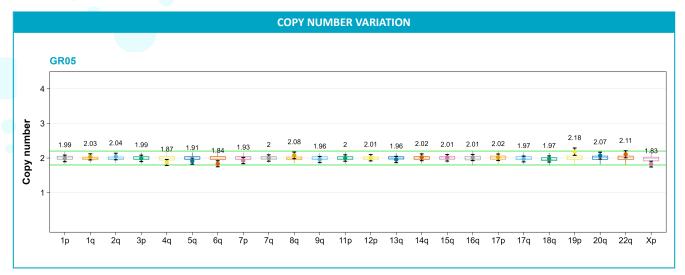
TEST DATE	CONTROL VALIDATION
May 23, 2024	Normal DNA control for the 24 probes: Passed

SUMMARY OF THE DETECTED COPY NUMBER VARIATIONS													
Sa	ample	Cell line	Passage	dsDNA (ng/ $\mu$ L)	dsDNA quantity	CNVs	Sex *						
	GR05	GR05 C5	P20	25.8	Good	Not detected	F						
The results of this test are for research use only.  To cite the iCS-digital™ test in your article, please select the most appropriate option from sample texts available here.  * If we know a considerable from the Charles are unwarred and other tests are charles and the charles are charles ar													

## Copy number values:



SUMMARY OF THE DETECTED COPY NUMBER VARIATIONS																								
CHROMOSOME 1p 1q 2q 3p 4q 5q 6q 7p 7q 8q 9q 11p 12p 13q 14q 15q 16q 17p 17q 18q 19p 20c									20q	22q	Хр													
GR05																								



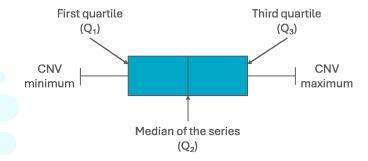




## Appendix: iCS-digital™ interpretation method

Our technology allows for the detection of Copy Number Variations (CNVs) that is to say, DNA segments of one kilobase (kb) or larger that are present at an abnormal copy number in comparison with a reference genome. Normal copy number should be equal or close to the value of 2 at all the 24 recurrent regions that we analyze (except for the Xp position since it depends on the sex of the cell line studied: XX or XY). However, due to intrinsic variation caused by multiple factors (DNA concentration, quality, etc.), some samples will present higher copy number fluctuation than others over the 24 positions.

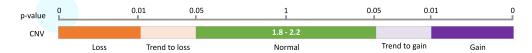
Our interpretation method takes into account the difference in CNV fluctuation observed among samples. More specifically, our statistical analysis is based on normal distribution and is adapted to the overall variability of each sample in an independent manner. P-values are then assigned to each probe and the detection of anomalies is calculated based on their specific p-values and CNVs. For each probe, a boxplot is generated based on the statistical analysis of the historical CNV values.



Visually, a non-significant value will be inside of the boxplot (indicating a similarity to a normal value) while a significant value will be outside of the boxplot (indicating a deviation from a normal value).

Green lines are displayed at 1.8 (lower limit) and 2.2 (upper limit) and represent the limit of detection of our test that is (<20% mosaicism). This means that our test can detect a minimum of 20% of abnormal cells among normal cells.

Also, a visual is shown describing the p-value and CNV thresholds detected at each position:



A sample is considered normal by default if its copy number values are strictly between 1.8 and 2.2, or if its p-values are strictly above 0.05. A trend (Trend to loss or Trend to gain), corresponds to a position detected with a p-value between 0.01 and 0.05. Trends are not anomalies but are defined as suspicion of anomalies. It could be linked to the quality of the samples, to the run, or the limit of sensitivity of the test (<20% mosaicism). In these cases, we advise to keep an eye on the samples involved and potentially re-test them few weeks/passages later.

An anomaly (CNV = Loss or Gain) is detected if a position presents a p-value strictly below 0.01.

The CNV value gives an information on the proportion of abnormal cells. For example:

- CNV = 2.2 means that 20% of the clonal population has acquired a third copy of the target region.
- CNV = 2.3 means that 30% of the clonal population has acquired a third copy of the target region.
- CNV = 3.0 means that 100% of the clonal population has acquired a third copy of the target region.
- CNV = 3.2 means that 100% of the clonal population has acquired a third copy of the target region and 20% of them has acquired a fourth copy.