Cytogen Analytical Validation

Cytogen circulating tumor cell liquid biopsy platform process analytical validation

Executive Summary:

Cytogen has developed an automated liquid biopsy platform that includes instruments that work in concert to detect the presence of circulating tumor cells (CTCs). The three instruments are -

Patient samples are isolated, stained and analyzed for the presence of CTCs based on the expression of The goal of this study is to assess the Cytogen's circulating tumor cell (CTC)

CLIA laboratory in To this end, an analytical liquid biopsy platform, for use at the validation plan was designed to include Analytical accuracy, Precision, Reproducibility, Limit of detection (LOD) experiments. Experiments were carried out as designed.

- · Various experiments were carried out analytically validate they Cytogen CTC isolation platform at
- All isolations were carried from blood as the starting sample.
- Experiments included Accuracy, Precision & LOD.
- Accuracy –

0	included blood from	donors, with
0		Jonors, with
0	included blood from	donors.
0	samples were negative.	ha

- had expected staining results. samples were negative,
- Precision
 - from collection for precision. A sample was extracted in from collection for A sample with was extracted, precision.
 - o Precision data for both samples was similar across all

Based on these results, Cytogen liquid biopsy platform.

is analytically validated to perform CTC detection using the

Signatures:

The following sign offs indicate that the above-named study has been reviewed and approved.

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