IsoLight®, IsoSpark™, IsoSpark™ Duo, IsoCode®, and CodePlex™ Sole Source Justification

The IsoLight, IsoSpark, and IsoSpark Duo platforms, IsoCode Single-Cell Secretome, IsoCode Single-Cell Signaling, CodePlex Secretome solutions, and IsoSpeak informatics software are only available from Bruker.

The award-winning IsoLight, IsoSpark, and IsoSpark Duo benchtop systems detect and characterize the most powerful cells to accelerate immune medicine. Bruker systems drive convergence of functional proteomics and single-cell biology, for the first time, to reveal key insights into immune cell function and tumor signaling. Bruker's instruments, which run Single-Cell Secretome, Single-Cell Signaling, and CodePlex chips, are the only systems to perform highly multiplexed proteomic detection of up to 30+ cytokines or 15+ phosphoproteins from single cells simultaneously, providing early, predictive biomarkers in a fully automated, end-to-end manner. Single-Cell Secretome uniquely measures up to 30+ different cytokines from 500-1500 live single cells, providing highly multiplexed functional proteomic insights critical to understanding and characterizing cells in a heterogenous population. Additionally, Single-Cell Signaling uniquely detects 15+ phosphoproteins from single cells simultaneously to reveal coordinated signals in rare subsets of tumor cells driving resistance. CodePlex provides highly multiplexed bulk analysis with a completely automated workflow that reduces the risk for user variability and error while increasing hands-off, walkaway time. CodePlex Secretome uses just 11 µL of sample volume, making it capable of handling a wide range of clinical sample sizes if large blood draws are not possible.

The integrated IsoSpeak data informatics software provides same-day turnaround of publication-ready data visualizations to stratify samples, reveal functional differences, pinpoint biological drivers, and allow for better collaboration between research groups. IsoSpeak helps discover new patient relationships amongst heterogeneous cells, clearly identifying subsets of powerful, multi-functional cells that can help predict patient outcome and determine disease progression. The intuitive user interface allows for push-button visualizations, eliminating the need for specialized personnel, extensive training, and weeks or months of waiting for critical data insights.

Bruker's Platforms:

- Are the only systems that can perform automated highly multiplexed live single-cell secretome analysis, singlecell highly multiplexed phosphoproteomic analysis, as well as bulk/population protein analysis, all on one simple platform.
- Our IsoCode Single-Cell Secretome technology is the only system that, by utilizing an on-board CO_2 incubator, can provide highly multiplexed secreted protein profiles of up to 30+ different cytokines from 500-1500 live single cells.
- Our Single-Cell Signaling technology is the only system that can provide highly multiplexed intracellular phosphoprotein analysis of up to 15+ different phosphoproteins per single cell.
- Our CodePlex Secretome technology is the only system that can provide highly multiplexed bulk secreted protein analysis of up to 30+ different cytokines using very low sample volumes (11 µL total) in a completely automated manner.
- IsoSpeak is the only proteomics analysis software on the market that integrates with the instrument to provide automated data analysis and generate advanced 3D visualizations such as UMAP and t-SNE, with a guided user interface.

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