

MESO SCALE DISCOVERY QUICKPLEX SQ 120

Meso Scale Discovery QuickPlex SQ 120

Broad Range Multiplex Detection via Electrochemiluminescence



The QuickPlex SQ120 utilizes MSD's proprietary multi-array technology to provide significantly increased sensitivity and dynamic range over standard ELISA with the added benefit of multiplexing. Fast, yet continuous, non-destructive reads produce consistent assay data with low sample volume requirements and minimal reagent consumption.

Using electrochemiluminescently-labeled detection antibodies, the QuickPlex SQ120 detects excitation near electrodes located in the bottom of each microplate. As electricity is applied to the plate electrodes, the electrochemiluminescent labels are stimulated to emit light. The intensity of those emissions are then converted to a quantitative measurement of the target analytes in cell supernatant, serum, plasma or whole blood. An added benefit of the electrochemiluminescence (ECL) detection technology is that it reduces assay background by separating the excitation mechanism from the signal.

With a broad range of quantitation, assays conducted using the QuickPlex SQ120 are cost-effective and exhibit a reduced need for repeats stemming from readings above the ULOQ or below the LLOQ. This means more valid data points from sample sets in a single run than with other similar platforms.

Applications

- Biomarkers
- Immunogenicity (Adverse reactivity)
- Pharmacokinetics (PK)
- Immuno-oncology
- Infectious Disease

Benefits

- ECL detection for enhanced dynamic range and reduced signal-to-noise

ratio

- Carbon electrode plate surface has 10 times greater binding capacity than polystyrene
- Multiple excitation cycles of each label enhance light levels and improve sensitivity
- Emission at ~620 nm eliminates problems with color quenching
- Custom arrays can be configured from the current menu of available analytes
- Custom assay development and validation support available for novel markers

Expertise

ABL's scientists are highly experienced in establishing multiplex assessments on the QuickPlex SQ120 platform. Contact us today to inquire how increased data reportables plus reduced sample and reagent requirements can open new possibilities in your study.

Contact Us Today

MSD ASSAY DEVELOPMENT AND SAMPLE ANALYSIS

DOWNLOAD