Luminex analyzer

With the Luminex analyzer, it is possible to measure multiple analytes in a single 25 µL aliquot of serum, plasma, or cell culture supernatant. This technology is based on the use of microparticles dyed with differing concentrations of two fluorophores to generate distinct bead sets. Each bead set is coated with capture antibody specific for one analyte. Captured analyte is detected using a biotinylated detection antibody and streptavidin-phycoerythrin (S-PE). The Luminex 100 analyzer is a dual laser, flow-based, sorting and detection platform. One laser is bead-specific and determines which analyte is being detected. The other laser determines the magnitude of PE-derived signal, which is in direct proportion to the amount of analyte bound. Available reaction kits include several mouse and human cytokines panels, circulating hormones, and phosphoprotein.

Location: LAB 2022
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