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**ABSTRACT**

Multiplexed kit "Mouse High Sensitivity T Cell Magnetic Bead Panel" allows a Simultaneous analyze low levels of cytokine and chemokine biomarker with the High Sensitivity Bead-Based Multiplex Assays using the Luminex technology, in mouse serum, plasma and cell culture samples.

**PROTOCOL**

Cytokines from murine plasma samples, including IFN-γ, IL-1β, IL-2, IL-4, IL-6, IL-10, IL-17A, and TNF-α were measured simultaneously using the multiplexed kit "Mouse High Sensitivity T Cell Magnetic Bead Panel" (MHSTCMAG-70K, MILLIPLEX, EMD Millipore Corp., Billerica, MA, USA). The assay was performed according to the manufacturer's instructions with an overnight incubation step (17 hours) at 4 °C. Samples were analyzed as single values and two controls with corresponding acceptance ranges, provided with the kit, were used for quality control purposes. The readout was performed on a FLEXMAP 3D® instrument (Luminex Corp., Austin, TX, USA). Data were acquired using Luminex xPONENT® software (version 4.3) and mean fluorescence intensity (MFI) was determined. Bio-Plex ManagerTM software (version 6.2) (Bio-Rad, Hercules, CA, USA) was used for back-calculation of unknown cytokine concentrations.