



Human MIP-1 β Antibody Bead Kit

INFORMATION SHEET

Catalog #: LHC1051 Description: Human MIP-1 β Lot:* 348293

*Note: A letter at the end of the lot number signifies an additional packaging of this same lot.

Intended Use

This reagent set comprises the analyte specific components for the measurement of human MIP-1 β in serum, plasma, or tissue culture supernatant. The assay may be run alone or in combination with other Antibody Bead Kits from Invitrogen. Buffer reagents needed to complete the reaction are sold separately under Catalog #LHB0001. These reagents are intended for use in the **Luminex® 100™ or 200™ System only. This kit is configured for research use only and is not to be used in diagnostic procedures.**

Reagents Provided

1. Antibody Bead Concentrate (10x):

Catalog #: LM040 Description: Ms x Hu MIP-1 β Lot: 357557 Size: 0.25 mL-100 tests

Bead Region: 28

Form: 0.25 mL 10x bead concentrate solution in storage buffer. Contains 7.5 mM sodium azide as preservative.

Storage: **Light-sensitive material.** Store at 2 - 8°C in the dark, until the expiration date indicated on the kit.

2. Biotinylated Antibody Concentrate (10x):

Catalog #: BN040 Description: Goat x Hu MIP-1 β biotin Lot: 357558 Size: 1 mL-100 tests

Form: 1 mL of a 10x stock of Biotinylated Antibody Concentrate in Biotin Diluent. Contains 15 mM sodium azide as preservative. Concentration of antibody is matched to this lot of beads. Do not mix lots of Coated Beads and Detection Antibody.

Storage: Store at 2 - 8°C until the expiration date indicated on the kit.

3. Human Chemokine 7-plex Standard (IP-10, MIG, Eotaxin, RANTES, MIP-1 α , MIP-1 β , MCP-1) (2 vials/kit):

Catalog #: SM008 Description: Rec. Hu Chemokine 7 plex std Lot: 276460 Size: Single use

Form: Lyophilized. The proteins in this standard have been calibrated against the masses of highly purified recombinant proteins, with the respective Invitrogen ELISA kits, and NIBSC calibration standards (if available). See the Product Insert included in the Buffer Reagent Kit for further information.

Storage: Store at 2 - 8°C. Use within 1 hour after reconstitution. Discard immediately after use.

Concentration of Reconstituted Standard**:

Hu IP-10 (9970 pg/mL) Hu MIG (20330 pg/mL) Hu Eotaxin (11810 pg/mL)

Hu RANTES (12190 pg/mL) Hu MIP-1 α (12510 pg/mL) Hu MIP-1 β (8310 pg/mL)

Hu MCP-1 (16470 pg/mL)

****Important note: The concentrations of reconstituted standards are lot-specific. Please verify all concentration values entered in data analysis software.**

Reconstitution: Reconstitute with 1 mL Assay Diluent when measuring MIP-1 β in serum or plasma samples. For other sample types, such as tissue culture supernatants, reconstitute the standard in 1 mL of a solution consisting of 50% Assay Diluent + 50% sample matrix. Allow standard to rehydrate for approximately 10 minutes before further dilution.

Recommended Starting Concentration for Standard Curve: Upon reconstitution, the starting concentration of standard is the value cited above. Make serial 1:3 dilutions in Assay Diluent (serum/plasma samples) or other appropriate matrix. Use 100 μ L per assay. If establishing a Multiplex Assay, this same standard can be used to measure the other related cytokines cited above in a Multiplex Assay format. See the Product Insert included in the Buffer Reagent Kit for further information.

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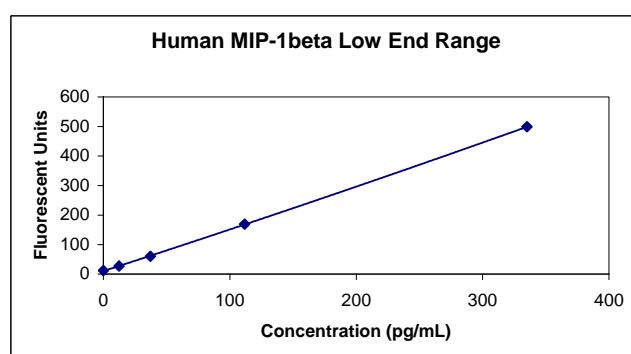
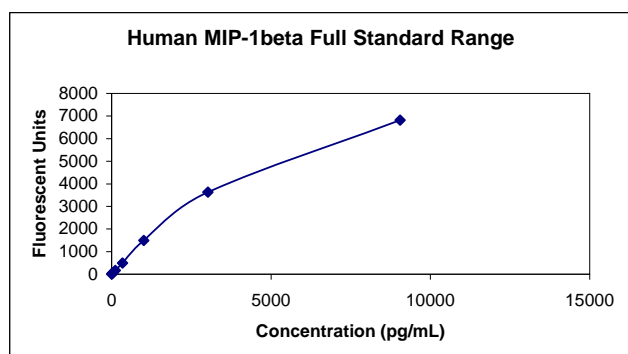
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Performance Characteristics

Analytical Sensitivity: The minimum detectable dose of Hu MIP-1 β is <10 pg/mL. This was determined by adding two standard deviations to the mean FI obtained when the zero standard was assayed 30 times.



Typical Standard Curve

Specificity: Buffered solutions of a panel of substances at 10 or 50 ng/mL were assayed with the Invitrogen Human MIP-1 β Antibody Bead Kit. The following substances were tested and all were found to have no cross-reactivity: human IL-1 α , IL-1 β , IL-1RA, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-10, IL-12, IL-13, IL-15, IL-16, β TG, G-CSF, PDGF, GM-CSF, GRO, IFN- α , IFN- γ , IP-10, LIF, Eotaxin, MCP-1, MCP-3, MCP-4, MIP-1 α , OSM, RANTES, SCF, TGF- β , TNF- β .

Precision:

	Intra-assay (n=16)	Inter-assay (n=36)
Mean (pg/mL)	2730	2710
SD	83	98
%CV	3.0	3.6

Linearity: Human serum was spiked with human MIP-1 β and serially diluted in Assay Diluent over the range of the assay. Linear regression analysis of samples versus the expected concentration yielded a correlation coefficient of 0.97. Tissue Culture medium containing 10% fetal calf serum was spiked with human MIP-1 β and serially diluted in a solution of 50% Assay Diluent and 50% tissue culture medium. Linear regression analysis yielded a correlation coefficient of 0.99.

Recovery:

Human serum averaged 90% (range: 85% to 105%).
 Human plasma (EDTA) averaged 108% (range: 102% to 115%); Heparin plasma averaged 108% (range: 99% to 125%).
 Citrated plasma is not recommended.
 Tissue culture medium containing 10% fetal calf serum averaged 100% (range: 95% to 105%).

Correlation to ELISA:

A correlation coefficient of 0.99 was calculated when values for human serum and plasma, obtained with the Human MIP-1 β Antibody Bead Kit were compared to the Invitrogen ELISA for Human MIP-1 β (cat.# KAC2291, KAC2292). Human MIP-1 β Antibody Bead Kit (pg/mL) x 1.0 = Hu MIP-1 β ELISA (pg/mL). Correlation of results obtained with the Human MIP-1 β Antibody Bead Kit to one's own system should be determined to arrive at an appropriate multiplication factor.

By purchasing this Kit, which contains fluorescently labeled microsphere beads authorized by Luminex \textregistered Corporation ("Luminex \textregistered "), you, the customer, acquire the right under Luminex's patent rights to use this Kit or any portion of this Kit, including without limitation the microsphere beads contained herein, only with Luminex's laser based fluorescent analytical test instrumentation marketed under the name Luminex \textregistered 100 TM or 200 TM . This product is covered by one or more of the following U.S. patents: 6,046,807.

This product is for research use only. Not for use in diagnostic procedures.

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