

IL-10 (13,940 pg/mL)

# Mouse IL-12 p70 Antibody Bead Kit INFORMATION SHEET

| Catalog #:   | LMC9121                              | Description   | on: Mouse IL-12   | p70                        | _Lot:*                     |                              | 421710                                      |
|--|--------------------------------------|---|---|----------------------------|----------------------------|------------------------------|---|
| *Note: A lette                                     | r at the end of th                   | ne lot number sig   | nifies an additional packa  | ging of this               | s same lot.                |                              |   |
| Intended U   | se                                   |   |   |                            |                            |                              |   |
| plasma, buffer<br>Kits from Inv<br>reagents are in | ed solution or ti<br>itrogen. Buffer | issue culture sup<br>reagents needed<br>in the <b>Luminex</b> ® | fic components for the mernatant. The assay may be to complete the reaction 100 <sup>TM</sup> or 200 <sup>TM</sup> System | oe run alone<br>n are sold | e or in comb<br>separately | oination with<br>under Catal | n other Antibody Bead<br>og #LMB0001. These |
| Reagents Pro                                       | vided                                |   |   |                            |                            |                              |   |
| 1. Antibody  | Bead Concentra                       | ate (10x):  |   |                            |                            |                              |   |
| Catalog #:   | LM042                                | Description:  | Rat x Ms IL-12  | Lot:                       | 437106                     | Size:                        | 0.25 mL-100 tests                           |
| Bead Region:<br>Form:<br>Storage:                  | 0.25 mL 10x<br><b>Light-sensit</b>   | <b>ive material.</b> Sto  | e solution in storage buffer<br>ore at 2 to 8°C, in the dark  | x, until the e             | expiration d               | ate indicated                | d on the kit.                               |
| <b>Note:</b> Beads for separately.                 | or Mouse IL-12                       | p/0 and Mouse   | IL-12 p40/p70 (cat.# LM0  | 20121) can                 | not be mixe                | ed. Each pro                 | tein must be measured                       |
| 2. Biotinyla                                       | ted Antibody Co                      | oncentrate (10x)  |   |                            |                            |                              |   |
| Catalog #: _                                       | BN042                                | Description:_   | Rat x Ms IL-12 biotin   | Lot:_                      | 437107                     | Size:                        | 1 mL-100 tests                              |
| Form: Storage:                                     | preservative.<br>Detection Ar        | Concentration on tibody.  | nylated Antibody Concen<br>of antibody is matched to<br>biration date indicated on  | this lot of                |                            |                              |   |
| Ü  |                                      | •   | L-10, IL-12, IFN-γ) (2 via  |                            |                            |                              |   |
| Catalog #:   |                                      | Description:  | Rec. Ms Th1/Th2 Std.  | Lot:                       | 310669                     | Size:                        | Single use                                  |
| Form:<br>Storage:                                  | recombinant                          | s. See the Produc   | in this standard have<br>et Insert included in the B<br>1 hour after reconstitution                                       | uffer Reage                | nt Kit for fi              | ırther inforn                | · · ·                                       |
| Concentration<br>IL-2 (2,624 pg<br>IFN-γ (4,750 p  | /mL)                                 | ted Standards*  | *:<br>IL-4 (13,900 pg/mL)<br>IL-5 (6,620 pg/mL)   |                            |                            |                              |   |

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

IL-12 (13,700 pg/mL)

**Reconstitution:** Reconstitute with 1 mL Assay Diluent when measuring IL-12 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  $100 \mu L$  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.

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

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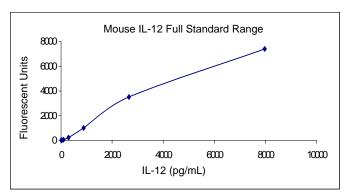
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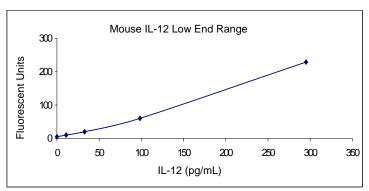
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## **Performance Characteristics**

Analytical Sensitivity: The minimum detectable dose of Ms IL-12 is <15 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 ng/mL were assayed with the Invitrogen Mouse IL-12 p70 Antibody Bead Kit. The following substances were tested and all were found to have no cross-reactivity: mouse IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-10, IL-12 p40 homodimer, GM-CSF, IFN-γ, MCP-1, MIP-2, TNF-α; human IL-12.

#### **Precision:**

|              | Intra-assay | Inter-assay |
|--------------|-------------|-------------|
|              | (n=16)      | (n=32)      |
| Mean (pg/mL) | 918         | 918         |
| SD           | 74          | 81          |
| %CV          | 8.1         | 8.8         |

Linearity: Mouse serum was spiked with mouse IL-12 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 0.99. Tissue culture medium containing 10% fetal calf serum was spiked with mouse IL-12 and serially diluted in a solution consisting of 50% Assay Diluent and 50% tissue culture medium. Linear regression analysis of samples versus the expected concentration yielded a correlation coefficient of 0.99.

#### **Recovery:**

Mouse serum averaged 83% (range: 78% to 92%).

Mouse plasma (heparin) averaged 91% (range: 88% to 93%); Citrated and EDTA plasma are not recommended.

Tissue culture medium containing 10% fetal calf serum averaged 100% (range: 95% to 105%).

**Correlation to ELISA:** A correlation coefficient of 0.96 was calculated when values for tissue culture supernatant samples, obtained with the Mouse IL-12 p70 Antibody Bead Kit, were compared to the Invitrogen ELISA for Mouse IL-12 p70 (cat.# KMC9121, KMC9122). Mouse IL-12 p70 Antibody Bead Kit x 0.67 = Mouse IL-12 p70 ELISA. Correlation of results obtained with the Mouse IL-12 p70 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® Corporation ("Luminex®"), 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® 100™ or 200<sup>TM</sup> System. 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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