

MultiBead™ Multiplex Assays

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MultiBead™ Multiplex Assays

Multiplex immunoassay kits for flow cytometry

- **Pathplex Panels** – pre-assembled panels for human cytokines and eicosanoids
- **uPlex Panels** – assemble your own custom multiplex from our menu of cytokine and eicosanoid assays
- **Activated Bead Coupling Kits** – add custom analytes to your multiplex with convenient bead coupling kits
- **FREE Data Analysis Software** – fully customizable, multi-parameter curve fitting, and simple data import/export

The Enzo Life Sciences' MultiBead platform provides an extensive menu of human cytokines, eicosanoids, heat shock proteins, and client proteins to choose from. Our flexible platform offers predetermined Pathplex panels, and customizable uPlex panels of up to 17 analytes. Activated bead coupling kits, FREE data analysis software, and a low-cost vacuum manifold ensure you have everything you need to deliver results you can count on.

Cytokines & Eicosanoids

Extracellular analytes (for use with culture supernatants, plasma, serum, or urine)

| Singleplex Analytes | Specificity | Sensitivity (pg/ml) | Pre-Mixed Pathplex Panels (human) | | | | | | |
|---------------------|---------------------|---------------------|-----------------------------------|--------------------|----------------------|-----------------|---------------------|-------------|-----------------------|
| | | | Inflammation 8-Plex | Tumorigenic 9-Plex | Inflammation 17-Plex | Th1/Th2 11-Plex | Respiratory 11-Plex | Pain 8-Plex | Cardiovascular 8-Plex |
| IFN- γ | human | 1.3 | X | X | X | X | X | X | |
| IL-1 α | human | 0.61 | | | X | X | | | X |
| IL-1 β | human | 0.13 | X | | X | X | | X | X |
| IL-2 | human | 3.1 | | X | X | X | | | |
| IL-4 | human | 8.9 | X | X | X | X | X | | |
| IL-5 | human | 5.1 | | | X | X | X | | |
| IL-6 | human | 0.23 | X | X | X | X | X | X | X |
| IL-8 | human | 0.42 | X | X | X | X | X | X | X |
| IL-10 | human | 0.02 | | X | X | X | X | X | |
| IL-13 | human | 0.45 | | | X | X | X | | |
| IL-15 | human | 7.9 | | | | | X | | |
| IL-17A | human | 0.66 | | | X | | X | | |
| IL-21 | human | 3.2 | | | | | | | |
| IL-29 | human | 8.1 | | | X | | | | |
| MCP-1 | human | 0.31 | | X | X | | X | | X |
| MIP-1 β | human | 7.2 | | | | | | | |
| PGE ₂ | species independent | 64.2* | X | X | X | | | X | X |
| RANTES | human | 1.1 | | | X | | X | | |
| TNF- α | human | 0.66 | X | X | X | X | | X | X |
| TXB ₂ | species independent | 65.9* | X | | X | | | X | X |

*Sensitivity for eicosanoids was determined using 10 replicate standard curves and represents the average of 80%B/B₀.

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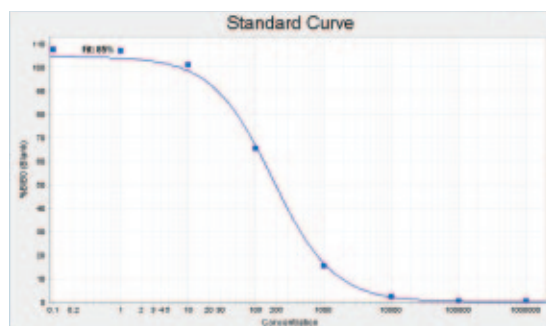
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MultiBead Analysis Software

Simplify multiplex data analysis

FREE MultiBead analysis software offers:

- Simplified data analysis - import FCS or LMD files and analyze data using an easy-to-use interface
- Flexible tuning - adjust parameters and settings to your needs
- Customized import and export - add your own custom assay data and export to PDF or Excel
- High precision - optionally use triplicate data series, 4PL or 5PL curve fit, and remove outliers



Activated Bead Coupling Kits

Create your own multiplex assays

The MultiBead activated bead coupling kit lets you covalently couple an antibody to fluorescently-labeled latex beads. You may simultaneously quantify up to 20 analytes in a single well through selection of two bead sizes (4.0 and 5.4µm) and 10 bead intensities. Each activated bead kit provides sufficient reagents for 2000 tests. The number of reactions per kit is equal to the number of beads ordered.

| 4.0µm Beads | 5.4µm Beads |
|-----------------------|-----------------------|
| Fluorescent Intensity | Fluorescent Intensity |
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |

Fluorescent Intensity

Human HSP & Client Proteins

Intracellular analytes (for use with cell lysates)

| Description | Sensitivity |
|---|-------------|
| HSP/Chaperone 8-Plex MultiBead kit | NA |
| Akt Singleplex MultiBead Kit | 0.2ng/ml |
| Akt (pSer⁴⁷³) Singleplex MultiBead Kit | 2.0U/ml |
| HSP27 (pSer¹⁵) Singleplex MultiBead Kit | 3.4U/ml |
| HSP27 (pSer⁸²) Singleplex MultiBead Kit | 5.2U/ml |
| HSP40 Singleplex MultiBead Kit | 0.2ng/ml |
| HSP60 Singleplex MultiBead Kit | 3.4ng/ml |
| HSP70 Singleplex MultiBead Kit | 0.2ng/ml |
| HSP90a Singleplex MultiBead Kit | 0.3ng/ml |

Vacuum Manifold

Incomparable functionality and price

Optimized for the vacuum filtration of multi-well plates, the manifold is constructed of a chemical-resistant polymer and is designed to facilitate the filtration of liquid through a multi-well filter plate. A vacuum manifold is a necessary component when using any MultiBead multiplex kit.



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