

Human IL-8 UltraSensitive Antibody Bead Kit

INFO)RM A	ATION	SHEET
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Catalog #:	LHC0083	Description:	Human IL-8 U	IltraSensitive	Lot:*	480483
*Note: A letter	at the end of the lot	number signifies an	additional packaging	of this same lot.		
Intended Use						
tissue culture s reagents neede	upernatant. The assa d to complete the rea	y may be run alone action are sold separ	or in combination wi ately under Catalog #	th other Antibody LHB0003. These re	Bead Kits f eagents are	2-8 in serum, plasma o from Invitrogen. Buffe intended for use in the be used in diagnostic
Reagents Prov	rided					
1. Antibody	Bead Concentrate (1	<u>0x):</u>				
Catalog #:	LM204 Desc	eription: M	Is x Hu IL-8	Lot: 480484	Size:	0.25 mL-100 tests
Bead Region: Form: Storage:			n in storage buffer. Co o 8°C in the dark, unt			
2. Biotinylat	ed Antibody Concen	trate (10x):				
Catalog #:	BN204 Desc	eription: Ms x	Hu IL-8 biotin	Lot: 480501	Size:	1 mL-100 tests
Form: Storage:	preservative. Con Detection Antiboo	centration of antibo ly.		lot of beads. Do i		5 mM sodium azide as s of Coated Beads and
3. Human Cy	ytokine Ten-Plex Sta	andard (GM-CSF, IF	'N-γ, IL-1β, IL-2, IL-	4, IL-5, IL-6, IL-8,	IL-10, and	TNF-α) (2 vials):
Catalog #:	SM024 Desc	ription:Rec. Hu Cy	tokine Ten-Plex Std.	Lot: 1407255	Size:	Single use
Form: Storage:	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 (i available). See the Product Insert included in the Buffer Reagent Kit for further information. Store at 2 to 8°C. Use within 1 hour after reconstitution. Discard immediately after use.					
<u> </u>	s of Prepared Stan			,		
GM-CSF (824 IL-2 (499 pg/m IL-6 (614 pg/m TNF-a (553 pg	pg/mL) iL) iL)	IFN-7 IL-4	y (773 pg/mL) (1,529 pg/mL) (709 pg/mL)		IL-5 (1	411 pg/mL) ,374 pg/mL) 495 pg/mL)

Reconstitution of Standard: Each standard curve requires one vial of Human Cytokine Ten-Plex Standard. Reconstitute each vial of standard with 1.0 mL Ultrasensitive Standard Reconstitution Buffer. Allow the standard to rehydrate for at least 10 minutes. Gently mix the standard by swirling and pipetting up and down 5-10 times. This UltraSensitive Assay requires a further 1:20 dilution of the reconstituted standard. When working with serum or plasma samples, perform this 1:20 dilution in Ultrasensitive Assay Diluent. For other sample types, such as tissue culture supernatants, perform this 1:20 dilution in a solution consisting of 50% Ultrasensitive Assay Diluent + 50% sample matrix. Gently mix the diluted standard by swirling and pipetting up and down 5-10 times.

Recommended Starting Concentration for Standard Curve: Upon reconstitution and 1:20 dilution, the starting concentrations of the standard are the values cited above. Make serial 1:3 dilutions in Ultrasensitive Assay Diluent (serum or plasma samples) or 50% Ultrasensitive Assay Diluent + 50% sample matrix (other sample types, such as tissue culture supernatants). Use 100 µL per assay.

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

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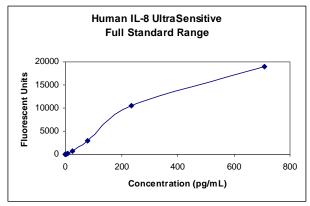
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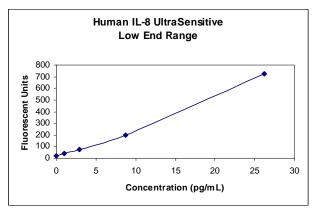
^{**}Important note: The concentrations of reconstituted standards are lot-specific. Please verify all concentration values entered in data analysis software.

Human IL-8 UltraSensitive Antibody Bead Kit INFORMATION SHEET

Performance Characteristics

Analytical Sensitivity: The minimum detectable dose of Hu IL-8 is <1.0 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 with concentrations ranging between 1 and 10 ng/mL were assayed with the Invitrogen Human IL-8 UltraSensitive Antibody Bead Kit. The following substances were tested and all were found to have no cross-reactivity: human IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-10, IL-11, IL-12, IL-13, IL-15, IL-16, IL-17, GM-CSF, IFN-α, IFN-γ, TNF-α, Eotaxin, IP-10, Gro-α, MCP-1, MCP-2, MCP-3, MIG, MIP-1α, MIP-1β, RANTES, TGF-β1, DR5, IL-1RA, IL-2R, IL-4R, IL-6R, TNF-RI, TNF-RII, EGF, FGF basic, G-CSF, HGF, VEGF, Adiponectin, Insulin, Leptin, SAA, Resistin, Haptoglobin, BDNF, GDNF, and PDGF-BB; mouse IL-1α, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p40/p70, IL-13, IL-17, GM-CSF, IFN-γ, IP-10, KC, MCP-1, MIG, MIP-1α, TNF-α, FGF basic, and VEGF; rat IL-1α, IL-1β, IL-2, IL-4, IL-6, IL-10, IL-12, GM-CSF, IFN-γ, and TNF-α.

Precision:

	Intra-assay	Inter-assay		
	(n=16)	(n=32)		
Mean (pg/mL)	71.4	74.7		
SD	5.6	6.6		
%CV	7.85%	8.88%		

Linearity: Human serum and tissue culture medium containing 10% fetal calf serum were spiked with human IL-8 and serially diluted in Ultrasensitive Assay Diluent and a solution consisting of 50% Ultrasensitive Assay Diluent and 50% tissue culture medium containing 10% fetal calf serum, respectively, over the range of the assay. Linear regression analysis of samples versus the expected concentration yielded correlation coefficients of 0.97 and 0.99 for serum and tissue culture medium, respectively.

Recovery:

Human serum averaged 106.3% (range: 82.1-119.0%).

Human EDTA plasma averaged 106.3% (range: 96.4-118.7%); Citrate plasma averaged 91.6% (range: 84.4-115.5%); Heparin plasma averaged 111.2% (range: 97.2-119.5%).

Tissue culture medium containing 10% fetal calf serum averaged 80.0% (range: 79.1-91.9%).

Correlation:

A correlation coefficient of 0.91 was calculated when values for tissue culture medium from human PBMCs stimulated for 72 hours with PHA, obtained with the Hu IL-8 UltraSensitive Antibody Bead Kit were compared to the Invitrogen Hu IL-8 ELISA (cat.# KHC0081, KHC0082). Hu IL-8 UltraSensitive Antibody Bead Kit (pg/mL) x 0.47 = Hu IL-8 ELISA (pg/mL).

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^{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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