

Human EGF Antibody Bead Kit INFORMATION SHEET

Catalog #:	LHGU	Descrip	ouon: H	uman EGF	L0	ot:*		412132
*Note: A letter	r at the end of	the lot number si	gnifies an addition	al packaging of	f this sa	me lot.		
Intended Use								
solution or tis Invitrogen. Bu	ssue culture suffer reagents se in the Lum	upernatant. The anneeded to compliance 100 TM or 2	assay may be run ete the reaction a	alone or in core sold separate	ombinat ely unde	tion with ot er Catalog #	ther Anti LHB000	rum, plasma, buffered body Bead Kits from 11. These reagents are only and is not to be
Reagents Pro	vided							
1. Antibody	Bead Concen	trate (10x):						
Catalog #:	LM044	Description:	Ms x Hu EG	F Lo	ot:4	23664	Size:	0.25 mL-100 tests
Bead Region: Form: Storage: 2. Biotinyla	0.25 mL 10 Light sens		te solution in stora ore at 2 - 8°C, in t	_				*
Catalog #:	BN044	Description:	Rbt x Hu EGF b	oiotin L	.ot: 4	23666	Size:	1 mL-100 tests
Form: Storage:	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. Store at 2 to 8°C until the expiration date indicated on the kit.							
3. <u>Hu Grow</u>	th Factor Stan	dard (VEGF, EG	F, FGF-basic, HG	F, and G-CSF)	(2 vials)	<u>):</u>		
Catalog #:	SM009	Description: R	ec. Hu Growth Fa	ctor Std. L	ot: 4	03272	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 t	o 8°C. Use within	1 hour after reco	nstitution. Disca	ard imm	nediately aft	er use.	
Concentration EGF (12,810 p HGF (6,000 pg	og/mL)	· ·	: 790 pg/mL) 1,290 pg/mL)	G-C	CSF (16,6	660 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 EGF 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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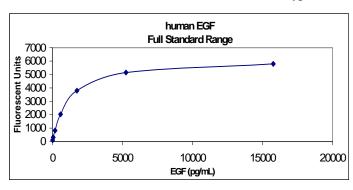
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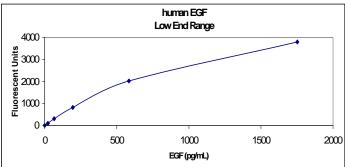
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Performance Characteristics

Analytical Sensitivity: The minimum detectable dose of human EGF 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 or 50 ng/mL were assayed with the Invitrogen Human EGF Antibody Bead Kit. The following substances were tested and all were found to have no cross-reactivity: human IL-4, IL-6, IL-6R, IL-10, IL-12, IL-13, IL-16, Fas/Apo-1/CD95, FGF basic, G-CSF, GM-CSF, IFN-γ, MCP-1, RANTES, VCAM-1, TNF-α, VEGF.

Precision:

	Intra-assay	Inter-assay
	(n=16)	(n=32)
Mean (pg/mL)	938	987
SD	39	72
%CV	4.2	7.3

Linearity: Human serum was spiked with human EGF 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 human EGF 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:

Human serum averaged 100% (range: 92% to 107%).

Human plasma (citrate) averaged 109% (range: 90% to 126%); EDTA plasma averaged 105% (range: 95% to 116%); heparin plasma averaged 83% (range: 80% to 86%).

Tissue culture medium containing 10% fetal calf serum averaged 103% (range: 100% to 114%).

Correlation to ELISA: A correlation coefficient of 0.98 was calculated when values for tissue culture samples obtained with the Human EGF Antibody Bead Kit were compared to the Invitrogen ELISA for Human EGF (cat. # KHG0061, KHG0062). Human EGF Antibody Bead Kit x 1.04 = Human EGF ELISA. Correlation of results obtained with the Human EGF 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^{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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