



HUMAN INTERFERON ALPHA (Hu-IFN- α) SERUM SAMPLE ELISA KIT

Product Number: **41110-1**

Size: **single-plate kit**

Lot Number: # 2742

Expiration: 04 August 2005

Contents: One pre-coated microtiter plate and all reagents

Storage Conditions: Keep at 4°C for greatest stability.

Range: 12.5-500 pg/ml for the high sensitivity protocol. 156-5000 pg/ml for the extended range protocol.

Speed: Incubation time, 3 hours 15 minutes.

Cross-Reactivity: This kit measures biologically active interferon, hence measurements are affected by factors such as purity and specific activity of the preparation. The standard curve for this kit is constructed with Human IFN- α A. Cross-reactivity with Human IFN- α 2, α A/D, α B2, α C, α D, α G, α H, α I, α J, α K, α 4b, and α WA should be characterized by the user and not be expected to be the same as that for Human IFN- α A. No cross-reactivity with human IFN- γ or IFN- β , mouse or rat IFN- α , IFN- β , or IFN- γ .

Specifications: This kit quantitates human interferon alpha in human serum samples, as well as other serum and media, using a sandwich immunoassay.^{1,2} The kit is based on an ELISA with anti-secondary antibody conjugated to horseradish peroxidase (HRP). Tetramethylbenzidine (TMB) is the substrate.

The specific activity of the interferon used as the standard in the kit is based on the international standard for human interferon alpha (Hu-IFN- α) provided by the National Institutes of Health.³ A typical standard curve for each lot and a microtiter plate worksheet are included with the procedure. Please note that the concentrations of the detecting antibody and the HRP differ from lot to lot. The differences are the result of PBL calibrating each kit for optimal sensitivity.

Quality Control: Standard written procedures are followed in the preparation of all ELISA kits. Each group of ELISA kits is assigned a lot number. Sample kits from each lot are retained for periodic evaluation. Kits are guaranteed for six months from the date of production.

1. Staehelin, T., Stähli, C., Hobbs, D.S., and Pestka, S. (1981) "A Rapid Quantitative Assay of High Sensitivity for Human Leukocyte Interferon with Monoclonal Antibodies," in *Methods in Enzymology*, Vol. 79 (S. Pestka, ed.), Academic Press, New York, 589-595.
2. Kelder, B., Rashidbaigi, A., and Pestka, S. (1986) "A Sandwich Radioimmunoassay for Human IFN- α ," in *Methods in Enzymology*, Vol. 119 (S. Pestka, ed.), Academic Press, New York, 582-587.
3. Human IFN- α international reference standard provided by the NIH, reference no. Gxa01-901-535. Pestka, S. (1986) "Interferon Standards and General Abbreviations," in *Methods in Enzymology*, Vol. 119 (S. Pestka, ed.), Academic Press, New York, 14-23.

Authorization

Released by: _____

Date: June 27, 2005

This Product Is For Research Use Only. Not For Use in Diagnostic Procedures.

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