Certificate of Analysis

Human Interferon Alpha A (Alpha 2a)

Catalog No: 11100-1 Lot No: Size: ⁻ 5 x 10⁶ units/vial

Description: Recombinant Human Interferon Alpha A (Alpha 2a) (Hu-IFN- -2a) Volume: ml Activity: x 10 units/ml (MDBK/VSV) units/mg (MDBK/VSV) **Specific Activity:** x 10 Buffer: Phosphate buffered saline (PBS) containing 0.1% bovine serum albumin (BSA) Endotoxin: < 1 EU/ g Molecular Weight: 19.2 kDa **Purity:** > 95% **Purification Method:** A combination of ion exchange, hydrophobic interaction and size exclusion chromatography. Source: cDNA obtained from human leukocyte mRNA expressed in E. coli Synonyms: None Accession #: V00549

Assay Used to Measure Bioactivity: Interferon was titrated with the use of the cytopathic effect inhibition assay as described:

Bovine (MDBK/VSV). performed as described [Rubinstein, et al. (1981) J. Virol. 37(2):755]. The EC₅₀ for interferon in this assay is ~5 U/ml. Lot Activity was derived from multiple determinations in the above assay.

Human (A549/EMCV). performed as described [Budd, et al. (1985) Canc. Chem. Pharm. 12:39]. The EC₅₀ for interferon in this assay is ~1 U/ml. Activity: x 10 units/ml Specific Activity: x 10 units/mg

The units are determined by use of a Human IFN Alpha A (Hu-IFN- A [2a]) laboratory standard calibrated to the international reference standard for human interferon alpha A (Hu-IFN- A [2a]) provided by the National Institutes of Health [Meager, et al. (2001) J. Immunol Methods. 257 (1-2):17-33]. Please note that IFN assays vary between labs and assay systems [Meager, et al. (2001). J. Immunol. Meth. 257:17. Meager and Das (2005) J. Immunol. Meth. 306:1].

Shipping Conditions: Dry Ice

Physical State of Product During Shipping: Frozen

Storage Conditions/Comments: After receipt, the product may be stored at -20°C for short-term use (m6 months). For long-term storage, we recommend storing the product at -70°C or below for retention of full activity. When thawing, the contents of the tube should be apportioned in separate tubes so that freezing and thawing is kept to a minimum. Refreezing should be done on dry ice or in a dry ice/alcohol bath. Further dilution of the product should be in buffers containing protein such as 0.1% bovine serum albumin (BSA) or tissue culture media with serum. Dilution of material below 2 x 10⁵ units/ml for freezing is not recommended. One freeze-thaw cycle is equivalent to thawing an aliguot prepared from the material received. [The activity measured after one freeze-thaw cycle is x 10 units/ml (MDBK/VSV)]. For more information on protein handling, visit our Resource Library at www.pblassaysci.com.

Authorization

Released by:

Date:

Sold under license from Pestka Biomedical Laboratories, Inc. d/b/a PBL Assay Science. For research use only. Not for diagnostic or clinical use in, or administration to, humans. Not for resale in original or any modified form, including inclusion in a kit, for any purpose. Not for use in the preparation of any commercial product.

Rev. 06