## **Certificate of Analysis**

**Human Interferon Alpha B2 (Alpha 8)** 

Catalog No: 11115-1

Lot No: 7394

Size: ≥ 1 x 10<sup>5</sup> units/vial

Description: Recombinant Human Interferon Alpha B2 (Alpha 8) (Hu-IFN-αB2; Hu-IFN-α8)

Volume: 0.100 ml

Activity: 5.56 x 10<sup>6</sup> units/ml (MDBK/VSV)

Specific Activity: 3.97 x 108 units/mg (MDBK/VSV)

Buffer: Phosphate buffered saline (PBS) containing 0.1% bovine serum albumin (BSA)

Endotoxin: < 1 EU/μg Molecular Weight: 19.5 kDa

**Purity**: ≥ 95%

Purification Method: Purified from E. coli by a combination of ion exchange, hydrophobic interaction and size exclusion

chromatography

Source: cDNA obtained from human leukocyte mRNA expressed in E. coli

Human Gene: IFNA8 Synonyms: Hu-IFN-α8 Accession #: X03125

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

Bovine (MDBK/VSV) – performed as described [Rubinstein, et al. (1981) J. Virol. 37(2):755]. The EC<sub>50</sub> for interferon in this assay is  $\sim$ 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 EC<sub>50</sub> for interferon in this assay is  $\sim$ 1 U/ml. Activity: 1.39 x 10<sup>7</sup> units/ml Specific Activity: 9.92 x 10<sup>8</sup> units/mg

The units are determined by use of a Human IFN Alpha A (Hu-IFN- $\alpha$ A [2a]) laboratory standard calibrated to the international reference standard for Human Interferon Alpha A (Hu-IFN- $\alpha$ A [2a]) provided by the National Institutes of Health [Meager, et al (2001). J. Immunol. Meth. 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 should be kept 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 10<sup>5</sup> units/ml for freezing is not recommended. One freeze-thaw cycle is equivalent to thawing an aliquot prepared from the material received. [The activity measured after one freeze-thaw cycle is 6.26 x 10<sup>6</sup> units/ml (MDBK/VSV)]. For more information on protein handling, visit our Resource Library at www.pblassaysci.com.

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