## **Certificate of Analysis**

Human Interferon Beta 1a, mammalian

Catalog No: 11415-1

Lot No: 7189

**Expiration:** October 17, 2021 **Size:** ≥ 1 x 10<sup>5</sup> units/vial

**Description:** Recombinant Human Interferon Beta 1a, mammalian (Hu-IFN-β-1a)

Volume: 0.1 ml

Activity: 2.22 x 106 units/ml

Specific Activity: 2.22 x 108 units/mg

Buffer: 50 mM NaOAc, pH 5.5 containing 0.1% BSA

Endotoxin: < 1 EU/µg Molecular Weight: ~23 kDa

Purity: > 95%, one N-linked glycosylation site

Purification Method: Proprietary chromatography methods

Source: cDNA obtained from human fibroblast mRNA expressed in CHO cells

Human Gene: IFNB1

Synonyms: Fibroblast Interferon

Accession #: V00534

Assay Used to Measure Bioactivity: Interferon was titrated with the use of the cytopathic effect inhibition assay as described [Familletti, et al. (1981) "A Convenience and Rapid Cytopathic Effect Inhibition Assay for Interferon," in *Methods in Enzymology*, Vol. 78 (S. Pestka, ed.), Academic Press, New York, 387-394]. Encephalomyocarditis virus (EMCV) was used to challenge A549 cells [Budd et al. (1985) Canc. Chem. Pharm. 12:39]. The activity was determined relative to a lab standard of Hu-IFN- $\beta$  which was calibrated to the NIH Hu-IFN- $\beta$  standard (Gb23-902-531). The EC<sub>50</sub> for IFN is ~1 U/ml. Lot Activity was derived from multiple determinations in the above assay. 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 (≤ 6 months). For long-term storage, we recommend storing the product at -70°C or below for retention of full activity. Thaw product vial by incubation in cold tap water until just thawed – 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). For more information on protein handling, visit our Resource Library at <a href="www.pblassaysci.com">www.pblassaysci.com</a>.

•	- 4 -				
А	utt	าดเ	'IZ	atı	on

Released by: \_\_\_\_\_ Date: May 19, 2020

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. 04