Certificate of Analysis

Bovine Interferon Tau 2

Catalog No: 19616-1 Lot No: Size: $^{-}$ 1 x 10⁵ units/vial

Description: Recombinant Bovine Interferon Tau 2 (Bo-IFN- 2). Active on cow, sheep, human and mouse cells. **Volume:** ml

Concentration: x 10 units/ml Specific Activity: x 10 units/mg Buffer: Phosphate buffered saline (PBS) containing 0.1% bovine serum albumin (BSA) Endotoxin: < 1 EU/ g Molecular Weight: 20,027 Da Purity: ⁻ 95% Source: Bovine gene for interferon tau expressed in *mammalian cells* Accession #: NP_001015511

Assay Used to Measure Bioactivity: Interferon was titrated with the use of the cytopathic effect inhibition assay as described [Rubinstein, S., Familletti, P.C., and Pestka, S. (1981) "Convenient Assay for Interferons," *J. Virol.* 37, 755-758; Familletti, P.C., Rubinstein, S., and Pestka, S. (1981) "A Convenient and Rapid Cytopathic Effect Inhibition Assay for Interferon," in *Methods in Enzymology*, Vol. 78 (S. Pestka, ed.), Academic Press, New York, 387-394]. In this antiviral assay for interferon about 1 unit/ml of interferon is the quantity necessary to produce a cytopathic effect of 50%. As there is not international Bo-IFN- standard, units are determined with respect to the international reference standard for human interferon alpha A (Hu-IFN- A) provided by the National Institutes of Health [see Pestka, S. (1986) "Interferon Standards and General Abbreviations," in *Methods in Enzymology* (S. Pestka, ed.), Academic Press, New York 119, 14-23]. Unit of activity measured on bovine MDBK cells with vesicular stomatitis virus (VSV).

References:

- 1. Klemann, et al. (1990) Mol. Endocrin. 4:1505-1514.
- 2. Alexenko, et al. (1997) J. Int. Cyto. Res. 17:769-779.

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. Over time, a portion of the carboxy terminal end may get clipped off, resulting in some protein of a molecular weight less than 20,000. Both the original bovine interferon tau and the clipped protein should maintain their biological activity. For more information on protein handling, visit our Resource Library at <u>www.pblassaysci.com</u>.

Authorization

Released by: ____

Date:

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