



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Nerve Growth Factor beta (NGF-b) Recombinant

**Catalog No.**  
MD-14-0245P

**Source:**  
CHO cells

- Description:** Recombinant Human Nerve Growth Factor beta is a homodimer, glycosylated, polypeptide chain containing 2 identical 119 amino acids and having a molecular mass of 16,950 Da. The sequence of the first five N-terminal amino acids was found to be Ser-Ser-Ser-His-Pro.
- Format:** Purified, Lyophilized  
Reconstitute using sterile deionized water to a concentration  $\geq 100\mu\text{g/ml}$ . Further dilutions can be made in other aqueous buffers.
- Purification:** >98% pure (HPLC, FPLC and reducing and non-reducing SDS-PAGE).  
Endotoxin level is less than 0.1ng/ug (IEU/ug). Purified by chromatographic techniques.  
Product is sterile filtered.
- Concentration:** 1 mg/ml (OD280nm,  $E^{0.1\%} = 1.1945$ ) (prior to lyophilization)
- Buffer:** Lyophilized from 30mM Sodium acetate, pH 5.5 containing 1% HSA
- Preservative:** None
- Applications:** The ED<sub>50</sub>, calculated by its ability to stimulate chick E9 DRG neurite outgrowth was found to be <1.0ng/ml, corresponding to a specific activity of  $>1 \times 10^6$  Units/mg. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
- Storage:** The lyophilized product, though stable for 3 weeks at room temperature, is best stored at  $-20^\circ\text{C}$ . After reconstitution, short term (up to 1 week) store at  $2-8^\circ\text{C}$ . Long term, add 0.1% HSA or BSA, aliquot and store at  $-20^\circ\text{C}$ . Avoid multiple freeze/thaw cycles.
- Inactivation:** Not applicable

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**