



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet NATIVE BORRELIA BURGDORFERI

**Catalog No.**  
DS-01-0033

**Species**  
Bacterial

## Introduction

*Borrelia burgdorferi* is a spirochete, the causative agent of the tick borne zoonotic disease Borreliosis or Lyme disease. The organism was first isolated in 1982 by Willy Burgdorfer after whom the organism was named. *B. burgdorferi* is the principal cause of Lyme disease in the U.S while *B. afzelii* and *B. garinii* are found as causative agents in Europe.

## Preparation

**Preparation:** Rendered inactive using gamma irradiation. The source was cultured in BSK II medium and the preparation contains all major antigens with residual cellular debris. The preparation was considered inactive when no detection of growth in two blind passages under original culture conditions is observed

**Source:** This product was prepared from *B. burgdorferi* strain B31 grown in BSKII medium.

## Applications

**Table Summary of protein applications and working conditions**

| Options<br>Functions | YES | NO | Not determined | Recommended<br>Work dilution or<br>concentration |
|----------------------|-----|----|----------------|--|
| ELISA                | .   |    |                |  |
| Western Blotting     |     |    | .              |  |
| Functional Assays    |     |    | .              |  |

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

\* This preparation should be sonicated immediately prior to use to ensure that the preparation is uniform.

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



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### ***Formulation***

**Product Form:** Sonicated organism suspension of *B. burgdorferi* (strain B31) - liquid

**Buffer Solution:** Phosphate buffered saline, pH 7.4 containing Mg<sup>++</sup>

**Preservative Stabilizers:** None present.

**Approx. Protein Concentrations:** 0.76 mg/ml using the Biorad dye binding assay. Standard curve is generated with a known concentration of IgG.

### ***Storage***

12 months from date of dispatch.

Store at -70°C. Storage in frost-free freezers is not recommended.

This product should be stored undiluted.

**Avoid repeated freezing and thawing as this may denature the protein.**

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