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## Product Data Sheet

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Product Name: Borrelia VisE1

Cat. No.: GP25187

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	Borrelia VisE1 is supplied in 20mM HEPES buffer pH-7.6, 250mM NaCl and 20% glycerol.		

### Introduction

Borrelia is a part of the genus of bacteria of the spirochete phylum. Borrelia causes borreliosis, which is a zoonotic, vector-borne disease transmitted mainly by ticks and some by lice, depending on the species. Of the 36 known species of Borrelia, 12 are distinguished to cause Lyme disease or borreliosis and are transmitted by ticks. The main Borrelia species causing Lyme disease are Borrelia burgdorferi, Borrelia afzelii, and Borrelia garinii. Variable major protein like sequence E1 protein (VisE1) is a borrelial surface protein which is the most sensitive protein for IgG antibody detection in all stages of Lyme disease.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

### Background

Recombinant Borrelia VisE1 (variable major protein like sequence E1) produced in E.coli is a non-glycosylated, polypeptide chain having a calculated molecular mass of 35kDa. Borrelia VisE1 is expressed with a -10x His tag at N-terminus and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA