

## Recombinant *Borrelia burgdorferi* (Lyme) Osp-A, His-tagged

Cat.No:DAG575

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Storage</b>	Short term (up to 2 months) store at 2-8oC. Long term, aliquot and store at -80oC. Avoid multiple freeze/thaw cycles.
<b>Source</b>	E. coli.
<b>Buffer</b>	20mM Tris-HCl, pH 7.5 containing 10mM beta-mercaptoethanol
<b>Concentration</b>	1mg/ml (Bradford method)
<b>Applications</b>	Specific methodologies have not been tested using this product.
<b>Molecular weight</b>	85kDa
<b>Form</b>	Purified, Liquid
<b>Preservative</b>	None
<b>Purity</b>	>95% pure (SDS-PAGE)
<b>Key words</b>	B burgdorferi; Lyme disease; Lyme; Osp-A; Spirochaetaceae; Borrelia

### Background

#### Introduction

*Borrelia burgdorferi* is a species of Gram negative bacteria of the spirochete class of the genus *Borrelia*. *B. burgdorferi* is predominant in North America, but also exists in Europe, and is the agent of Lyme disease. *B. burgdorferi* infections have been linked to non-Hodgkin lymphomas. *B. burgdorferi* (B31 strain) was the third microbial genome ever sequenced, following the sequencing of both *Haemophilus influenzae* and *Mycoplasma genitalium* in 1995, and contains 910,725 base pairs and 853 genes. The sequencing method used was whole genome shotgun. The sequencing project, completed and published in *Nature* in 1997, was conducted at The Institute for Genomic Research. Lyme disease clinical features include the characteristic bull's eye rash and erythema chronicum migrans (a rash which spreads peripherally and spares the central part), as well as myocarditis, cardiomyopathy, arrhythmias, arthritis, arthralgia, meningitis, neuropathies and facial nerve palsy.