

Recombinant *B. burgdorferi* ospC Antigen, His tagged

Cat. No. ospC-039B Lot. No. (See product label)

SPECIFICATION

Product Overview	The <i>Borrelia burgdorferi</i> antigen ospC has been prepared as a recombinant antigen fused to a his-tag in its N-terminus.
Species	<i>B. burgdorferi</i>
Source	E.coli
Description	Outer membrane protein ospC is essential for the invasive strategy of the pathogenic spirochete responsible for Lyme disease. Detection of anti-OspC borreliacidal antibodies, especially IgM antibodies, in early Lyme borreliosis sera provides additional evidence that borreliacidal antibody detection may be useful for the serodiagnosis of early Lyme borreliosis.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 25 and 35 kDa, while relative molecular mass calculated from amino acid sequence is 27,887.3 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the

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aliquot at 25 centigrade without shaking to avoid aggregation.

Storage Buffer 20 mM phosphate buffer pH 7 and 0.15 M NaCl

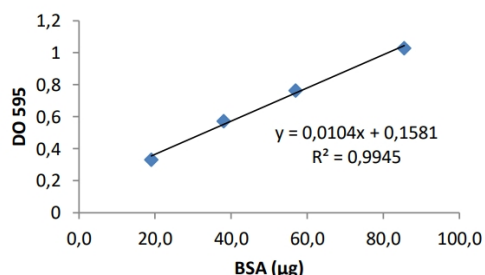
Concentration 1.91 mg/mL

Shipping Protein is shipped with dry ice.

Reference

1. Lagal, V., le Postic, D., Ruzic-Sabljić, E., and G. Baranton. Genetic Diversity among *Borrelia* Strains Determined by Single-Strand Conformation Polymorphism Analysis of the *ospC* Gene and Its Association with Invasiveness. 2003. *Journal of Clinical Microbiology*, 41:5059–5065.
2. Bradford, MM. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein dye binding. *Anal Biochem.* 1976, 131:499-503.

**PROTEIN
CONCENTRATION
DETERMINED
ESPECTROPHOTOMET**



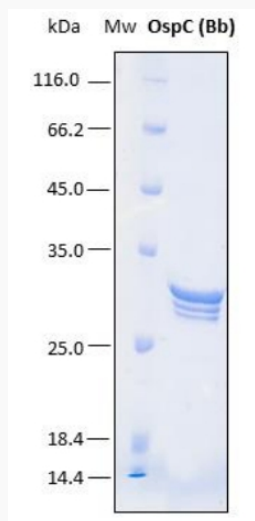
This protein does not contain any Trp residues. Experience shows that this could result in more than 10% error in the computed extinction coefficient. Therefore, we have measured the protein concentration by using the colorimetric assay based on the interaction between Coomassie brilliant blue and the arginine and aromatic residues and its maximum absorption shifts from 470 nm to 595 nm. The standard curve was performed with the protein BSA. 40 µL of the protein were analyzed.

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Purity



SDS-PAGE analysis (15%) of 2 μ L of recombinant ospC. Purity is > 95% as determined by gel electrophoresis. Bands which slightly appear under the main band correspond to this same protein as it is showed in a western blot performed with a his-tag monoclonal antibody.