

## Recombinant *B. garinii* flaB Antigen, His&TrxA tagged

**Cat. No.** flaB-020B    **Lot. No.** (See product label)

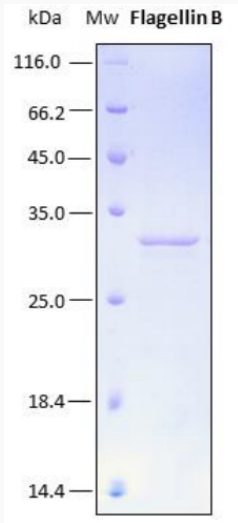
### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | The central region of the <i>Borrelia garinii</i> flaB gene has been expressed as a recombinant antigen fused to a TrxA and a his-tag in its N-terminus.                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | <i>B.garinii</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | <i>E.coli</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Flagellin is the subunit protein that polymerizes to form the filaments of bacterial flagella. It consists of 336 amino acids. <i>Borrelia</i> flagellin contains conserved and semi-conserved regions located at the N- and C-termini of the protein, whereas the central area exhibits variability. Many <i>Borrelia</i> -specific epitopes were found in this variable central region, and therefore, it has been described as a suitable antigen to test bacterial genera. |
| <b>Tag</b>              | N-His&TrxA                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 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 25,638.00 Da.                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 95% by observation on SDS-PAGE electrophoresis                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>     | WB, DB, IE, DE, CLIA, LF                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>          | Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and                                                                                                                                                                                                                                                                                                                                                                                         |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.                                                                                                                                                                                                                                                     |
| <b>Storage Buffer</b> | 20 mM phosphate buffer pH 7, 0.15 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>  | 1.34 mg/mL                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Shipping</b>       | Protein is shipped with dry ice.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Reference</b>      | <p>1. Jiang, W. Luft, B.J., Schubach, W., Dattwyler, R.J. and P.D. Gorevic. Mapping the Major Antigenic Domains of the Native Flagellar Antigen of <i>Borrelia burgdorferi</i>. 1992, Journal of Clinical Microbiology, 30:1535-1540.</p> <p>2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.</p> |
| <b>Purity</b>         |  <p>SDS-PAGE analysis (15%) of 3 µL of recombinant flagellin B Ba. Purity is approx.</p>                                                                                                                                                                                                                      |

95% as determined by gel electrophoresis.

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