

***Borrelia burgdorferi* VlsE1**

Antigen Specification

Product Number: 45700

Description:

Borrelia burgdorferi (strain B31) variable major protein (VMP) like sequence Expressed 1 (VlsE1). Recombinant antigen for research use or manufacturing only.

Immunological function:

Binds IgG- and IgM-type human antibodies.

Origin:

Recombinant. Expressed in *E. coli* bacterial cells.

Expression construct:

Full-length cDNA coding for *Borrelia burgdorferi* VlsE1 fused to a deca-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with patient sample.

Calculated molecular weight:

35 kDa

Calculated isoelectric point:

pH 7.20

Endotoxin content:

Tested by LAL (Limulus Amoebocyte Lysate) chromogenic endotoxin assay.

Immunological tests/Functionality:

Immunodot analyses with Lyme disease positive/negative samples.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

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