

## ***Borrelia burgdorferi* BmpA**

### **Antigen Specification**

**Product Number: 40500**

**Description:**

*Borrelia burgdorferi* (strain B31) basic membrane protein A (BmpA). Recombinant antigen for in vitro research and manufacturing use 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* BmpA fused to a hexahistidine purification tag.

**Biochemical tests:**

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

**Calculated molecular weight:**

36 kDa

**Calculated isoelectric point:**

pH 5.62

**Endotoxin content:**

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

**Immunological tests/Functionality:**

Immunodot analyses with Lyme disease positive/negative samples; suitable for LTT (lymphocyte transformation test).

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: neutral to slightly alkaline pH. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

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