

***Borrelia burgdorferi* BmpA**

Antigen Specification

Product Number: 40500

Description:

Borrelia burgdorferi (strain B31)
basic membrane protein A (BmpA).
Recombinant antigen for research use
or manufacturing only.

Calculated molecular weight:

36 kDa

Calculated isoelectric point:

pH 5.62

Immunological function:

Binds IgG- and IgM-type human
antibodies.

Endotoxin content:

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

Origin:

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

Immunological tests/Functionality:

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

Expression construct:

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

**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.

Biochemical tests:

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

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