

***Borrelia burgdorferi* BmpA**

Antigen Specification

Product Number: 40500

Description:

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

Calculated molecular weight:

36,239 Dalton

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 test with Lyme disease positive/negative plasma; 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 human plasma.

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