

## ***Borrelia burgdorferi* p41**

### **Antigen Specification**

**Product Number: 40200**

**Description:**

*Borrelia burgdorferi* p41 protein.  
Recombinant antigen for research use  
or manufacturing only.

**Immunological function:**

Binds IgG- and IgM-type human  
antibodies.

**Origin:**

Recombinant. Expressed by  
recombinant baculovirus (*Autographa  
californica* multiple nuclear  
polyhedrosis virus; AcMNPV) infection  
of *Spodoptera frugiperda* Sf9 insect  
cells.

**Expression construct:**

Full-length cDNA coding for *Borrelia  
burgdorferi* p41 fused to a hexa-  
histidine purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 80%); Western  
blot with human plasma.

**Calculated molecular weight:**

36,578 Dalton

**Calculated isoelectric point:**

pH 5.99

**Endotoxin content:**

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

**Immunological tests/Functionality:**

Immunodot test with Lyme disease  
positive/negative plasma; 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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