

## ***Borrelia burgdorferi* p41**

### **Antigen Specification**

**Product Number: 40200**

**Description:**

*Borrelia burgdorferi* (strain B31) p41 protein.

Recombinant antigen for in vitro research and manufacturing use 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 patient sample.

**Calculated molecular weight:**

37 kDa

**Calculated isoelectric point:**

pH 5.99

**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.

Copyright 2011 - 2021 DIARECT GmbH