

## ***Borrelia burgdorferi* OspA**

### **Antigen Specification**

**Product Number: 41200**

**Description:**

*Borrelia burgdorferi* outer surface protein A (OspA). Recombinant antigen for research use or manufacturing only.

**Calculated molecular weight:**

28,577 Dalton

**Calculated isoelectric point:**

pH 8.38

**Immunological function:**

Binds IgG-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) and T cell stimulation assays.

**Expression construct:**

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

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

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

**Biochemical tests:**

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

Copyright 2013 - 2014 DIARECT AG