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# Borrelia Diagnostics

## Borrelia afzelii ELISA

The used **antigen** is a mix of *B. afzelii* strain PKo, the *B. garinii* strain PBr and the *B. burgdorferi* strain ZS7 that are recommended antigens for Europe.

- ▼ All Borrelia ELISAs and LINE Immunoblots are validated for the **CSF diagnostic use**
- ▼ Complete CSF **calculation software** available
- ▼ **VisE** *in vivo* expressed antigen → beside OspC second early marker in IgG serology of Lyme-Borreliosis



## Borrelia afzelii +VisE IgG ELISA

Maximum diagnostic sensitivity due to the additional *in-vivo*-antigen VisE

Order No.: EC022G00 (Test kit)  
EC022L60 (CSF Standards)

## Borrelia afzelii IgM ELISA

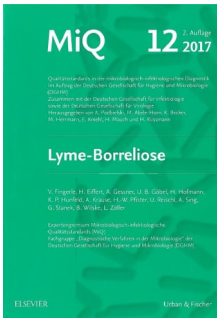
High sensitivity due to a strong OspC-expressing *Borrelia afzelii*-strain PKo

Order No.: EC022M00 (Test kit)  
EC022L80 (CSF Standards)

## B. afzelii + VisE IgG Europe ELISA

Increased specificity due to special cut-off adjustment

Order No.: EC024G00 (Test kit)  
EC022L60 (CSF Standards)



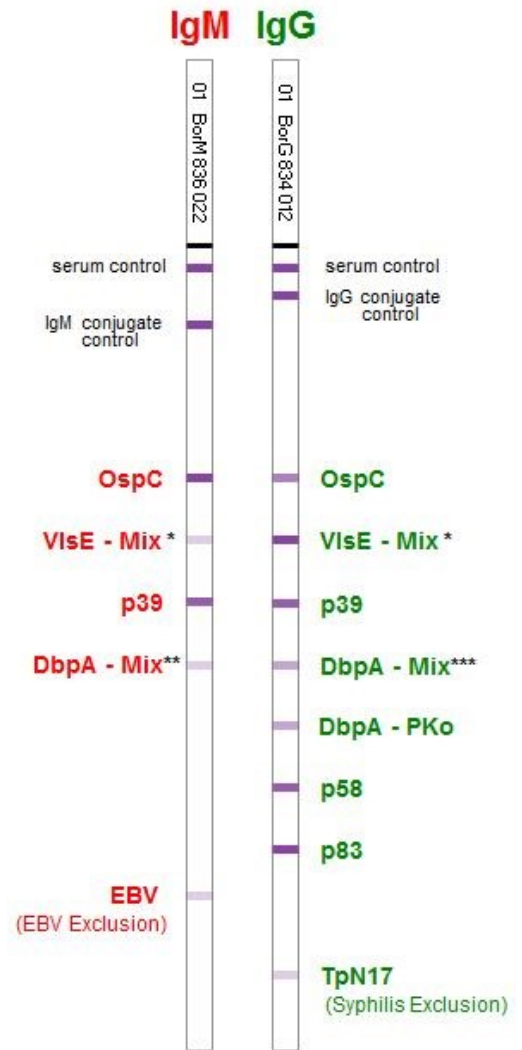
# Borrelia Europe plus TpN17 LINE

## referring to MIQ 12/2017

With native  
OspC - dimers

### Advantages of the Borrelia Europe LINE:

- ▼ Optimised combination of **native**, high purified (OspC, DbpA-Pko) and **recombinant** (VlsE, p83, p58, p39, DbpA -mix) *B. burgdorferi* s.l. antigens
- ▼ Antigen combination of all **important human-pathogen** geno-species, including *B. spielmanii* and *B. bavariensis*
- ▼ **DbpA**-antigen-combination of several strains: *B. afzelii* (PKo); *B. garinii* (PBr), *B. bavariensis* (PBi) (5) and *B. spielmanii* (A14S) (2,3,4)
- ▼ **VlsE** of two geno-species: *B. burgdorferi* s.s. (B31) and *B. garinii* (Ip90) (4)
- ▼ **Exclusion markers for EBV-primary and Syphilis** infections for an improved IgG/IgM serology
- ▼ High reproducibility → antigens are microdispensed onto defined positions
- ▼ Easy reading & interpretation, also with the LabImage LA<sup>®</sup>- software



(\*) *B. burgdorferi* s.s. (B31) and *B. garinii* (Ip90)  
 (\*\*) *B. garinii* (PBr), *B. bavariensis* (PBi), *B. spielmanii* (A14S) and *B. afzelii* (PKo)  
 (\*\*\*) *B. garinii* (PBr), *B. bavariensis* (PBi) and *B. spielmanii* (A14S)

**Order No.:** WE225G32 or WE225G96, 32 or 96 IgG-strips  
 WE224M32 or WE224M96, 32 or 96 IgM-strips

#### Literature:

(1) Wilske, B. et al., Med. Microbiol. Immunol. (1999); 188: 139-144; (2) Schulte-Spechtel, U. et al., IJMM 296 (2006) S1, 250-266; (3) Goettner, G. et al., Journal of Clinical Microbiology, Aug. 2005, p. 3602-3609; (4) Schulte-Spechtel, U. et al., Journal of Clinical Microbiology, Mar. 2003, p. 1299-1303; (5) Margos G. et al., American Society for Microbiology June 2009

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