Serological diagnosis and differentiation of cystic and alveolar echinococcoses

Highly sensitive screening and confirmatory tests for serological two-step diagnosis of echinococcosis

**Screening test: Anti-Echinococcus ELISA (IgG)**
- Exclusive, specifically purified antigen from *E. multilocularis* vesicle fluid (EmVF)*
- Simultaneous detection of antibodies against *E. granulosus* and *E. multilocularis*

Order number: EI 2320-9601-1 G

**Confirmation and differentiation: Anti-Echinococcus EUROLINE-WB (IgG)**
- Combination of whole antigen extract (EmVF) and 3 especially selected specific single antigens
- Differentiation between *E. granulosus* and *E. multilocularis* in over 80% of cases

Order number: DY 2321-1601-1 G

*Source: Laboratory Prof. Gottstein, Institute for Parasitology; Vetsuisse University, Bern, Switzerland*
Complete product range for a diagnostic two-step strategy

**Screening**

- Anti-Echinococcus ELISA (IgG) or Anti-Echinococcus granulosus IIFT
  (order no. EI 2320-9601-1 G) (order no. FI 2320-#### A, G, M)

  ![Diagram showing screening process]

**Confirmation and differentiation**

- Anti-Echinococcus EUROLINE-WB (IgG)
  (order no. DY 2321-1601-1 G)

  ![Diagram showing differentiation process]

**Differentiation using the Anti-Echinococcus EUROLINE-WB (IgG) is possible in >80% of cases**

<table>
<thead>
<tr>
<th>Echinococcus IgG positive (n=99)</th>
<th>Number of samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Echinococcus granulosus</td>
<td>47 (47.5%)</td>
</tr>
<tr>
<td>Echinococcus multilocularis</td>
<td>33 (33.3%)</td>
</tr>
<tr>
<td>Echinococcus granulosus or E. multilocularis</td>
<td>19 (19.2%)**</td>
</tr>
</tbody>
</table>

* borderline
** Due to the band patterns, differentiation was not possible for these samples.