PRODUCT SPECIFICATIONS

Name                  Anti-Chlamydia trachomatis 6709 SP-5
Specificity          Antibody recognizes *Chlamydia trachomatis* LPS
Description          Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal-derived components
Product code        100073
Product buffer solution  0.9 % NaCl, 0.095 % NaN₃ as a preservative
Shelf life and storage 36 months from manufacturing at 2–8 °C
Analyte description  *C. trachomatis* is an obligate intracellular pathogen and can cause numerous disease states in both men and women. Both sexes can display urethritis, proctitis, trachoma, and infertility. The bacterium can cause prostatitis and epididymitis in men. In women, cervicitis, pelvic inflammatory disease (PID), ectopic pregnancy, and acute or chronic pelvic pain are frequent complications. *C. trachomatis* is also an important neonatal pathogen, where it can lead to infections of the eye (trachoma) and pulmonary complications.

PARAMETERS TESTED ON EACH LOT

Product appearance Liquid, may turn slightly opaque during storage
Product concentration  5.0 mg/ml (+/- 10 %)
Immunoreactivity     80–120 % compared to the reference sample in an FIA test
IEF Profile          6.7 – 7.5
Purity               ≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass             IgG₂₄₅
Association rate constant  Not Determined (N/D)
Dissociation rate constant  N/D
Affinity constant       N/D
Determination method   –
Determination antigen  For immunization Chlamydia LGV2 strain
Cross-reactivities

*C. pneumoniae*
*C. psittaci*

No cross reactivity with the following micro-organisms
*S. minnesota, B. quintana, B. henselae, S. negevensis*

Epitope

Chlamydial LPS KDO-trisaccharide

Pair recommendations

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>6709</td>
<td>6701</td>
</tr>
</tbody>
</table>

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Product stability

<table>
<thead>
<tr>
<th>TEMPERATURE, TIME</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>-70 °C, 21 days</td>
<td>N/D</td>
</tr>
<tr>
<td>-20 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+4 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+30 °C, 21 days</td>
<td>OK, some charge alterations</td>
</tr>
<tr>
<td>+35 °C, 7 days</td>
<td>OK, some charge alterations</td>
</tr>
<tr>
<td>+35 °C, 21 days</td>
<td>Failed due to charge alterations</td>
</tr>
<tr>
<td>+45 °C, 3 days</td>
<td>Failed due to precipitation</td>
</tr>
<tr>
<td>+45 °C, 7 days</td>
<td>Failed due to reduced antigen binding</td>
</tr>
</tbody>
</table>

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous

Clone 6709 binds to chlamydial lipopolysaccharide (LPS) and therefore recognizes all chlamydias.

References