

**INFECTIOUS DISEASES**

**PRODUCT SPECIFICATIONS**

Date: 2010-05-12

<b>PRODUCT NAME</b>	: Anti-Chlamydia 6709 SP-5
<b>PRODUCT SPECIFICITY</b>	: Antibody recognizes <i>Chlamydia trachomatis</i> LPS
<b>PRODUCT CODE</b>	: 100073
<b>PRODUCT BUFFER</b>	: 0.9 % NaCl, 0.1 % NaN <sub>3</sub> as a preservative
<b>SHELF LIFE AND STORAGE</b>	: 36 months from manufacturing at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	: <i>C. trachomatis</i> is a 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. <i>C. trachomatis</i> is also an important neonatal pathogen, where it can lead to infections of the eye (trachoma) and pulmonary complications.

**PARAMETERS TESTED FROM EACH LOT**

<b>PRODUCT APPEARANCE</b>	: Clear liquid
<b>PRODUCT CONCENTRATION</b>	: 5.0 mg/ml
<b>PRODUCT ACTIVITY</b>	: 80-120 % compared to reference in an IFMA-test
<b>IEF-RANGE</b>	: 6.3 - 8.2
<b>PURITY</b>	: ≥ 95 %

**PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE**

<b>CLASS AND SUBCLASS</b>	: IgG <sub>2a</sub>
<b>ASSOCIATION CONSTANT</b>	:
<b>DISSOCIATION CONSTANT</b>	:
<b>AFFINITY CONSTANT</b>	: n.d.
<b>DETERMINATION METHOD</b>	:
<b>ANTIGEN</b>	: For immunization Chlamydia LGV2 strain
<b>CROSS-REACTIVITIES</b>	: <i>C. pneumoniae</i> <i>C. psittaci</i>

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

<b>EPITOPE</b>	:	Chlamydial LPS KDO-trisaccharide																												
<b>EPITOPE GROUP</b>	:	Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.																												
<b>PAIR RECOMMENDATIONS</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SOLID</th> <th style="text-align: left;">LABEL</th> </tr> </thead> <tbody> <tr> <td>6709</td> <td>6701</td> </tr> </tbody> </table> <p>Please note that pair recommendations are based on results obtained in our laboratory and equally good results can be obtained using also other pairs and therefore these recommendations should be taken only as directive.</p>	SOLID	LABEL	6709	6701																								
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<b>PRODUCT STABILITY</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">TEMPERATURE, DAYS</th> <th style="text-align: left;">RESULT</th> </tr> </thead> <tbody> <tr><td>-70 °C, 21 days</td><td></td></tr> <tr><td>-20 °C, 21 days</td><td></td></tr> <tr><td>+4 °C, 21 days</td><td></td></tr> <tr><td>+25 °C, 21 days</td><td></td></tr> <tr><td>+35 °C, 7 days</td><td></td></tr> <tr><td>+35 °C, 21 days</td><td></td></tr> <tr><td>+45 °C, 3 days</td><td></td></tr> <tr><td>+45 °C, 7 days</td><td></td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">pH, 14 DAYS, +4 °C</th> <th style="text-align: left;">RESULT</th> </tr> </thead> <tbody> <tr><td>5.0</td><td></td></tr> <tr><td>6.0</td><td></td></tr> <tr><td>7.0</td><td></td></tr> <tr><td>8.0</td><td></td></tr> </tbody> </table>	TEMPERATURE, DAYS	RESULT	-70 °C, 21 days		-20 °C, 21 days		+4 °C, 21 days		+25 °C, 21 days		+35 °C, 7 days		+35 °C, 21 days		+45 °C, 3 days		+45 °C, 7 days		pH, 14 DAYS, +4 °C	RESULT	5.0		6.0		7.0		8.0	
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<b>MISCELLANEOUS</b>	:	Clone 6709 binds to chlamydial lipopolysaccharide (LPS) and therefore recognizes all chlamydias.																												
<b>REFERENCES</b>	:	Tirola, T., Jakkola, A., Bloigu, A., Paldanius, M., Sinisalo, J., Nieminen, M.S., Silvennoinen-Kassinen, S., Saikku, P., Jauhainen, M. and Leinonen, M. (2006) Novel enzyme immunoassay utilizing lipopolysaccharide-binding protein as a capture molecule for the measurement of chlamydial lipopolysaccharide in serum. <i>Diag. Microbiol. Inf. Dis.</i> 54:7-12																												

### Legal disclaimer

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