

## Anti-Chlamydia trachomatis 6701 SP-5

### Product overview

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<b>Catalog number</b>	100141
<b>Specificity</b>	Antibody recognizes <i>Chlamydia trachomatis</i> LPS
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
<b>Product buffer solution</b>	0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	24 months from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	<i>C. trachomatis</i> 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. <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 on each lot

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<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80–120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	6.5–6.9
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	Not Determined (N/D)
<b>Dissociation rate constant</b>	N/D
<b>Affinity constant</b>	N/D
<b>Determination method</b>	-
<b>Determination antigen</b>	-



#### Legal disclaimer

**Cross-reactivities** Recognizes *C. pneumoniae*, *C. psittaci* and *S. aureus* (unspecific binding to protein A).

Cross-reactivity with the following micro-organisms below 5 %:  
*A. lwoffii*, *A. baumannii*, *B. fragilis*, *C. albicans*, *C. freundii*, *C. xerosis*,  
*E. aerogenes*, *E. coli*, *Fusobacterium*, *G. vaginalis*, *K. pneumoniae*,  
*L. acidophilus*, *M. hominis*, *M. smegmatis*, *N. gonorrhoeae*, *Peptococcus*,  
*Peptostreptococcus*, *Propionibacterium*, *P. vulgaris*, *R. aeruginosa*,  
*S. cerevisiae*, *S. marcescens*, *S. faecalis*, *S. pyogenes*, *T. globrata*,  
*U. urealyticum*, *S. minnesota*

**Epitope** Chlamydial LPS KDO-trisaccharide

**Pair recommendations**

		DETECTION		
		6701	6703	6709
CAPTURE	6701	-	-	-
	6703	-	-	-
	6709	+	-	-

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.

**Platforms tested** FIA

**Antigens tested** N/D

Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	N/D
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 21 days	OK
	+45 °C, 7 days	OK

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** Chlamydia LGV2 strain was used for immunization. Clone 6701 binds to chlamydial lipopolysaccharide (LPS) and therefore recognizes all chlamydias.

**References** Tirola, T., Jaakkola, A., Bloigu, A., Paldanius, M., Sinisalo, J., Nieminen, M.S., Silvennoinen-Kassinen, S., Saikku, P., Jauhiainen, M. and Leinonen, M. (2006) Novel enzyme immunoassay utilizing lipopolysaccharide-binding protein as a capture molecule for the measurement of chlamydial lipopolysaccharide in serum. *Diag. Microbiol. Inf. Dis.* 54:7-12

