

Datasheet: PIP004

**BATCH NUMBER 170418**

<b>Description:</b>	NATIVE CHLAMYDIA TRACHOMATIS
<b>Name:</b>	CHLAMYDIA TRACHOMATIS
<b>Format:</b>	Inactivated Pathogen
<b>Product Type:</b>	Antigen
<b>Quantity:</b>	1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Immunoassay	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Bacterial
<b>Product Form</b>	Inactivated <i>Chlamydia trachomatis</i> - liquid
<b>Preparation</b>	Mouse L cells are infected with <i>Chlamydia trachomatis</i> LGV type II strain 434 elementary bodies. Optimally infected cells are harvested and disrupted by sonication in phosphate buffered saline. Cellular debris is removed by centrifugation. The antigen preparation is inactivated using gamma radiation, which primarily damages chlamydial genetic material.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	Current, batch-specific concentration 4.7 mg/ml
<b>Product Information</b>	<i>Chlamydia trachomatis</i> is a nonmotile, Gram-negative human pathogen. It undergoes a unique biphasic developmental cycle, forming elementary bodies extracellularly and

distinctive intracellular inclusions. The elementary body is infectious but metabolically inactive, cannot replicate and lacks detectable peptidoglycan. The major outer membrane protein (MOMP) comprises a large percentage of the outer membrane and is a transmembrane protein with type, species and genus reactive epitopes. The outer membrane also carries a heat stable lipopolysaccharide containing the reactive epitopes used for genus specific serological tests. There is structural similarity and antigenic cross-reactivity between chlamydial and other Gram-negative LPS moieties.

*Chlamydia trachomatis* is a common sexually transmitted bacterium. Chlamydia infection may cause proctitis, urethritis, trachoma (an eye infection and the leading cause of blindness worldwide) and infertility in both sexes. Prostatitis and epididymitis may occur in men and in women infection might lead to acute or chronic pelvic pain, pelvic inflammatory disease, cervicitis and ectopic pregnancy. In neonates the pathogen may cause trachoma and pulmonary complications.

*Chlamydia trachomatis* (PIP004 contains a high concentration of elementary bodies and chlamydial components in phosphate buffered saline. Residual host cellular material is present.

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<b>Activity</b>	This product has been rendered inactive by standard procedures. However this material should still be handled as infectious and should be disposed of appropriately.
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<b>Instructions For Use</b>	PIP004 should be sonicated immediately before use to ensure the preparation is uniform. The product may be used in a variety of immunoassay formats or may be further purified to meet the requirements of a particular assay format.
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<b>Storage</b>	Store at -70°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein.
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<b>Guarantee</b>	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10209 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PIP004">https://www.bio-rad-antibodies.com/SDS/PIP004</a>
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<b>Regulatory</b>	For research purposes only
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**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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