

Active Native Chlamydia Pneumoniae (TWAR Strain) Antigen Protein

Cat. No. CPA-349C **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Native Chlamydia Pneumoniae (TWAR Strain) Antigen Protein is purified from HL cells. Chlamydia pneumoniae (TWAR Strain) is a common respiratory pathogen, the causal agent of a variety of mild to moderate respiratory illnesses.

Species

CP

Source

HL cells

Description

Atypical pneumonia is caused by non-traditional pathogens such as Mycoplasma pneumoniae (M. pneumoniae), Chlamydia pneumoniae (C. pneumoniae) and Legionella pneumophila. These bacteria can cause outbreaks and lead to serious complications in susceptible populations such as children and the elderly. Both M. pneumoniae and C. pneumoniae are respiratory pathogens that can be spread from person-to-person through coughing and sneezing. Legionella on the other hand is found naturally in fresh water and can contaminate warm-water systems such as hot tubs, cooling towers (e.g. air-conditioning units for large buildings), hot water tanks, etc. spreading to humans as a mist or vapor containing the bacteria (transmission is not person-to-person). Several methods are available for the detection of Legionella, M. pneumoniae and C. pneumoniae infection including culture, serological tests and qPCR. However, rapid assays for specific IgM antibody detection and antigen detection are highly sought after, due to their advantage of speed to prevent outbreaks. For Legionella, existing assays rely on urine specimens, although new techniques for water samples are emerging.

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Form	Lysate, Liquid. SPG Buffer.
Bio-activity	Inactivated by gamma irradiation. The effectiveness of inactivation is tested by inclusion forming assay. If no inclusions are observed, the antigen is considered inactivated. Result: 0 IFU/mL.
Applications	Suitable for use in EIA and Western Blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	Aliquot and store at -70 centigrade. Avoid multiple freeze/thaw cycles.
Concentration	1.36 mg/mL (Bio-Rad Dye Binding Assay)

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