

# PNEUMOCOCCAL CELL WALL POLYSACCHARIDE (CWPS)

for adsorption of human serum samples

for *in vitro* diagnostic use



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## Information and ordering

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## Application

CWPS is a pneumococcal antigen common to all pneumococcal serotypes used for preadsorbing human serum samples before quantitation of selected pneumococcal capsular polysaccharide antibodies. CWPS may also be used as a coating agent during performance of enzyme linked immunosorbent assay (ELISA test).

## Description

CWPS is supplied in a vial containing minimum 10 mg lyophilized purified antigen.

## Principle

During pneumococcal vaccination the level of antibodies against pneumococcal capsular polysaccharides are determined. To be able to measure a specific antibody response to a capsular polysaccharide it is necessary to remove the developed antibodies against pneumococcal CWPS (no protection against pneumococcal invasive disease), otherwise falsely high antibody levels will be measured. The CWPS exists as a contaminant in the pneumococcal capsule. Almost all individuals have antibodies against CWPS, as a response to pneumococcal carriage or infection. The CWPS antibodies have to be neutralized (adsorbed) by adding CWPS to the serum sample.

## Materials required but not provided

- Type I reagent grade water - ultra pure water (conforms to ASTM, CAP, NCCLS, USP and ISO specifications).

## Procedure

### *Absorption of human serum*

Prepare a stocksolution by dissolving 10 mg lyophilized purified CWPS in 1 mL type I reagent grade water (10 mg/mL). Further dilutions are made in dilution buffer. The recommended concentration of CWPS for adsorption varies from one procedure to another.

## Coating of ELISA plates

To test the effect of adsorption CWPS can be used as an ELISA plate coating agent. The stocksolution is diluted 1:4000 in coatingbuffer (2.5 µg/mL).

## Storage and shelflife

Store the lyophilized purified CWPS at room temperature. Expiry date of the sealed vial is printed on the package.

The stability of the stocksolution (10 mg/mL) is 1-2 weeks at 2-8°C, and can be prolonged by addition of sodium azide.

## References

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