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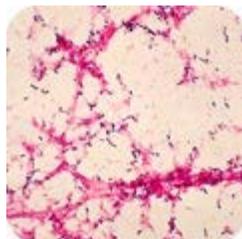


Use of ATCC Pneumococcal Polysaccharides in the Evaluation of Enzyme-Linked Immunosorbent Assays

For several decades, the pneumococcal polysaccharide enzyme-linked immunosorbent assay

(ELISA) has been employed in the serological evaluation of novel pneumococcal conjugate vaccines. This assay, however, has often been characterized by a continuous pursuit for enhanced specificity. In an attempt to improve assay precision, a third-generation ELISA was developed that reduced the effects of nonspecific antibody binding...

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ATCC® Pneumococcal Polysaccharides

ATCC offers 24 types of purified pneumococcal polysaccharides and associated parent strains that are ideal for multi-valent vaccine development, *in vitro* immunological research, and epidemiological

studies. ATCC pneumococcal polysaccharides are available in three package sizes (2 mg, 10 mg, 200 mg). New lots will be provided with a Certificate of Analysis that includes:

- Identity by NMR
- Residual protein
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Clostridium difficile Vaccine Development – Prospective Treatment Modalities

Clostridium difficile is a leading cause of hospital-acquired infection throughout the industrialized world. Current *C. difficile* vaccine strategies have focused on inducing the production of neutralizing antibodies through immunization with toxoids¹, human cell-induced synthetic genes², or *Bacillus* spores expressing toxin peptide repeats³.

Further the development and analysis of your novel *C. difficile* vaccine using the [Clostridium difficile Panel \(ATCC® MP-4™\)](#). This panel is composed of 8 *C. difficile* strains, each representing one of the known toxinotypes, including: Types 0, IIIb, IIIc, (tcdA-, tcdB-), V, VIII, XII, and XXII. Use this unique collection to build and test new methods to prevent, detect, and treat *C. difficile*.

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1. Sougioultzis S, Kyne L, Drudy D, *et al.* *Clostridium difficile* toxoid vaccine in recurrent *C. difficile*-associated diarrhea. *Gastroenterology* 2005; 128:764–770.
2. Gardiner DF, Rosenberg T, Zaharatos J, *et al.* A DNA vaccine targeting the receptor-binding domain of *Clostridium difficile* toxin A. *Vaccine* 2009; 27:3598–3604.
3. Permpoonpattana P, Hong HA, Phetcharaburanin J, *et al.* Immunization with *Bacillus* spores expressing toxin A peptide repeats protects against infection with *Clostridium difficile* strains producing toxins A and B. *Infection & Immunity* 2011; 79(6):2295-2302.

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