

BP1067F**Polyclonal Antibody to Streptococcus Group A - FITC****Quantity:**

1 ml

Concentration:

1.0 mg/ml (OD280 nm, E0.1% = 1.4)

Background:

The genus *Streptococcus* is comprised of a wide variety of both pathogenic and commensal gram positive bacteria which are found to inhabit a wide range of hosts, including humans, horses, pigs and cows. Within the host, streptococci are often found to colonize the mucosal surfaces of the mouth, nose and pharynx. Streptococci can be divided into many groups on the basis of antigenic differences in group-specific polysaccharides located in the bacterial cell wall. More than 20 serologic groups have been identified and designated by letters, eg, A, B, C. Group A streptococci, cause a wide-range of disease in humans, from mild sore throats to life-threatening invasive disease such as necrotising fasciitis. *Streptococcus pyogenes* (a group A *Streptococcus*) is one of the most important pathogens encountered in clinical practice. Group A streptococci (GAS) are gram-positive, nonmotile, non-spore-forming organisms that appear as pairs or short-to-moderate-sized chains. Group A organisms can be identified by enzyme immunoassays.

Host:

Goat

Immunogen:

Streptococci, Group A

Format:**State:** Liquid purified Ig fraction**Purification:** Immunoaffinity chromatography**Buffer System:** 0.01 M PBS, pH 7.2, containing 0.09% sodium azide as preservative and 10 mg/ml BSA as stabilizer**Label:** FITC – High purity Isomer I of fluorescein isothiocyanate Care is taken to ensure complete removal of any free fluorescein from the final product*Molar Ratio:* F:P ratio = 5.4**Applications:**

ELISA (functions both as capture and detection antibody).

Immunofluorescence assay: a starting range of 1:10-1:50 is suggested.

Direct Fluorescence assay staining of target antigens in a permissive tissue culture system. Acetone fixation of the antigen source is recommended prior to staining. Pre-block slide with 10 % normal goat serum.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:The antibody recognizes a type specific carbohydrate for group A *Streptococcus*. Does not cross-react with other Strep groups.**Add. Information:**

There is potential non-specific reactivity with each organisms as group C *Streptococcus* and *Staphylococcus* due to the presence of protein A like proteins (*Staphylococcus*) and protein C like proteins (*Streptococcus* C) present on the intact surface of these bacteria. These proteins bind any immunoglobulin (including the FITC Conjugate) and therefore will appear to fluoresce (non-specifically).

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.