

## Product datasheet for **AP09842PU-N**

### Thiamphenicol / Florfenicol Sheep Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	<b>ELISA:</b> 2.5 µg/ml.
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Thiamphenicol-BTG
Specificity:	This antibody recognizes Thiamphenicol/Florfenicol.
Formulation:	20mM Phosphate, 150mM Sodium Chloride, pH 7.2 containing 0.09% Sodium Azide as preservative. State: Ig Fraction State: Liquid Ig fraction prepared by Caprylic Acid and Ammonium Sulphate precipitation procedures.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Background:**

Thiamphenicol is a broad-spectrum antibiotic, active against both Gram-positive and Gram-negative bacteria and especially effective against anaerobes. Thiamphenicol may be used in the treatment and control of a wide range of respiratory and alimentary tract infections of bacterial origin in calves, pigs and poultry.

Thiamphenicol has a similar antibacterial spectrum to chloramphenicol but has not been associated with aplastic anaemia in spite of extensive use in man. Thiamphenicol inhibits protein synthesis in bacteria. It has a bacteriostatic action against a broad range of microorganisms, although it may be bactericidal for some species under some conditions, and in concentrations 3 to 5 times higher than the bacteriostatic concentrations. Among the bacteria inhibited in vitro by relatively low concentrations of thiamphenicol are *Clostridium*, *Corynebacterium diphtheriae*, *Diplococcus pneumoniae*, *Staphylococcus albus*, *Streptococcus pyogenes*, *Streptococcus viridans*, *Bacteroides*, *Fusobacterium*, *Bordetella*, *Brucella*, *Haemophilus*, *Neisseria*, *Pasteurella*, *Shigella* and some vibrio strains. Some Bacilli, *Erysipelothrix*, *Staphylococcus aureus* and *Streptococcus faecalis* are sensitive to moderate concentrations of thiamphenicol but *Listeria*, *Aerobacter*, *Escherichia*, *Klebsiella*, *Proteus* and *Salmonellae* are sensitive only to relatively high concentrations. The compound is active against *Mycoplasmas*, *Treponema*, *Rickettsias*, *Entamoeba* and *Actinomycetes*, but inactive against *Mycobacterium tuberculosis* and *Pseudomonas aeruginosa*. The in vitro antimicrobial activity of the thiamphenicol glycinate ester is similar to that of thiamphenicol base.

**Synonyms:**

Nuflor, Thiophenicol, Florfenicol, Dextrosulphenidol