AntiProt

Product information

Product name:	**Chloramphenicol ELISA-Test Kit**
Product number:	EC-1
General Description:	Chloramphenicol is a bacteriostatic antimicrobial originally derived from the bacterium *Streptomyces venezuelae*. It was the first antibiotic to be manufactured synthetically on a large scale, and alongside the tetracyclines, is considered the prototypical broad-spectrum antibiotic. Chloramphenicol is effective against a wide variety of Gram-positive and Gram-negative bacteria, including most anaerobic organisms. The most serious adverse effect associated with chloramphenicol use is bone marrow toxicity, which may occur in two distinct forms: bone marrow suppression, which is a direct toxic effect of the drug and is usually reversible, and aplastic anemia, which is idiosyncratic (rare, unpredictable, and unrelated to dose) and generally fatal. A screening method for chloramphenicol-residues in milk samples was licensed officially in Germany in September 1998 (§35 LMBG).
Principle:	This test kit is based on the competitive enzyme immunoassay for the detection of chloramphenicol in the sample. The coupling antigen is pre-coated in the micro-well stripes. The chloramphenicol in the sample and the coupling antigen pre-coated on the micro-well stripes compete for the anti-chloramphenicol antibody. After the addition of the enzyme conjugate, the TMB substrate is added for coloration. The optical density (OD) value of the sample has a negative correlation with the chloramphenicol in it. This value is compared to the standard curve and the chloramphenicol concentration is subsequently obtained.

Specifications

Format:	96 wells/kit
Sensitivity:	0.05 ppb
Detection limit:	animal tissue, aquatic product, milk – 0.05 ppb; honey – 0.15 ppb; intestine, urine, egg, serum – 0.1 ppb
Crossreaction rate:	chloramphenicol – 100%, thiamphenicol - 0.1%, florfeniol - 0.1%
Sample processing time:	animal tissue, aquatic product, honey, intestine – 20 min; urine – 2.5 h, egg and milk – 30 min, serum – 15 min
Detection time:	80 min.