



EuroProxima
Close to your analysis

VIRGINIAMYCIN ELISA (5151VIG)

General

Virginiamycin is a streptogramin antibiotic complex consisting of virginiamycin M1 and S1. It is effective in the treatment of vancomycin resistant *Staphylococcus aureus* and *Enterococcus*. In veterinary medicine, virginiamycin also has been used to promote growth in livestock. In 1998, however, virginiamycin was banned from animal feed in accordance with Council Regulation (EC) no. 2821/98.

The **Virginiamycin ELISA** is a competitive enzyme immunoassay based on antibodies directed against virginiamycin.

Kit characteristics

Microtiter plate:

96 wells
12 x 8 Breakapart

Antibody cross-reactivity:

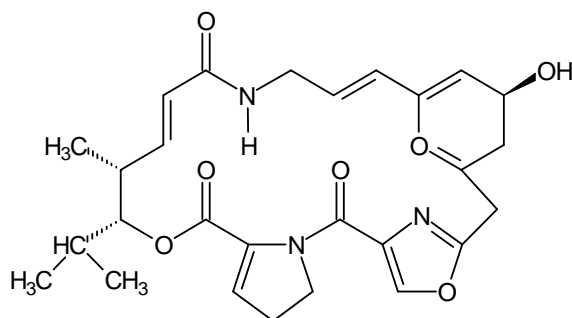
Virginiamycin	100%
Zinc Bacitracin	<0.01%
Tylosin	<0.01%
Olaquinox	<0.01%
Neomycin	<0.01%
Chlortetracycline	<0.01%
Oxytetracycline	<0.01%

Conjugate:

Virginiamycin-HRP stabilized

Standard range:

0, 0.39, 0.78, 1.56, 3.125, 6.25 and 12.5 ng/ml



Chemical structure of virginiamycin M1

Assay characteristics

Matrices

Urine
Feed
Milk

LOD (ppb)

40
40
8

The Limit of detection (LOD) is calculated as: $X_n + 3SD$ and is determined under optimal conditions.

Sample preparation

For urine, feed and milk fast and efficient methods are included in the kit manual.

Procedure

Antibody, conjugate and standard/sample are pipetted into the wells and incubated for one hour at 20°C - 25°C. After a washing procedure ready-to-use substrate is added and incubated for 30 minutes at 20°C - 25°C. The reaction is stopped and the absorbance is read in a spectrophotometer at 450 nm.

EuroProxima's user-friendly software converts the measured optical density into the concentration of the metabolite in the starting material.