



EuroProxima
Close to your analysis

IONOPHORE ELISA (5111IONO)

General

Salinomycin and Naracin belong to the group of polyether antibiotics (ionophores) and are fermentation products of the fungi *Streptomyces albus* and *S. Aureofaciens*, respectively. The main therapeutic application of ionophores is the prevention and treatment of coccidiosis in poultry. Coccidiosis is a parasitic disease, caused by protozoa resident in the intestinal epithelium, which occurs wherever animals are housed in small areas that are contaminated with coccidial oocysts.

The **Ionophore ELISA** is a competitive enzyme immunoassay based on antibodies directed against salinomycin.

Kit characteristics

Microtiter plate:

96 wells
12 x 8 Breakapart

Antibody cross-reactivity:

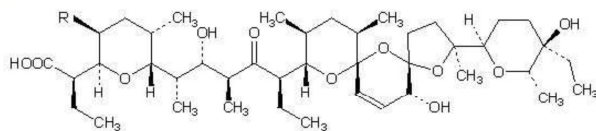
Salinomycin	200%
Naracin	100%
Monensin	< 1%
Lasolocid	< 1%

Conjugate:

Salinomycin-HRP stabilized

Standard range (ready-to-use):

1.25, 2.5, 5, 10, 20 and 40 ng/ml



R = H : SALINOMYCIN
R = CH₃ : NARASIN

Chemical structure of salinomycin and naracin

Assay characteristics

Matrices

Tissue
Pet feed

LOD (ppb)

4
20

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

Sample preparation

For tissue and pet feed 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 2°C - 8°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.