



SULFADIAZINE ELISA (5101SUDA)

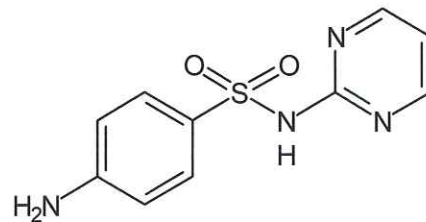
General

Sulfadiazine belongs to the group of sulphonamide drugs that act as competitive antagonists against para-amino benzoic acid (PABA). PABA is a precursor of folic acid which is essential for live of most bacteria and protozoa. In the EU and in the USA the MRL for residues of sulfonamides in tissue and milk is 100 µg/kg.

Kit characteristics

- **Microtiter plate:**
12 x 8 break 4 wells
- **Antibody cross-reactivity:**

Sulfadiazine	100%
N4-acetyl-sulfadiazine	50%
Sulfamerazine	75%
Sulfathiazole	3%
All other Sulfonamides tested	< 0.5%
- **Conjugate:**
Sulfadiazine-HRP stabilized
- **Standard range (ready-to-use):**
0, 1.25, 2.5, 5.0, 10.0, 20.0 and 40.0 ng/ml



Chemical structure of sulfadiazine

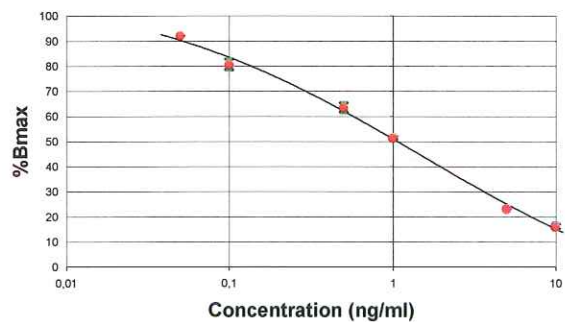
Assay procedure

Antibody, conjugate and sample/standard are pipetted into the wells and incubated for 30 minutes at RT (20°C - 25°C). After a washing procedure ready-to-use substrate is added and incubated for 15 minutes at RT. Stop the reaction and read in a spectrophotometer at 450 nm.

Assay characteristics

<i>Matrices and sample preparation,</i>	<i>LOD (ppb)*¹</i>
Milk: dilution 10x	7
Honey: dilution 10x	12
Tissue: dilution 10x	7
Plasma: dilution 10x	4
Feed: dilution 100x	12
Urine: dilution 10x	12

Calibration Curve Sulphadiazine



*¹ LOD (Limit of Detection); Validation according SANCO/1085/2000.