

CORTICOSTEROID EIA (5081COR1p)

General

The Corticosteroid EIA is a competitive enzyme immunoassay (EIA) for the detection of various corticosteroids in milk, urine, tissue and feed samples. Within the EU Maximum Residue Limits (MRL's) for dexamethasone, betamethasone, prednisolone and methylprednisolone are established in milk, muscle (fat), kidney and liver. The MRL for dexamethasone in muscle is 0.75 µg/kg.

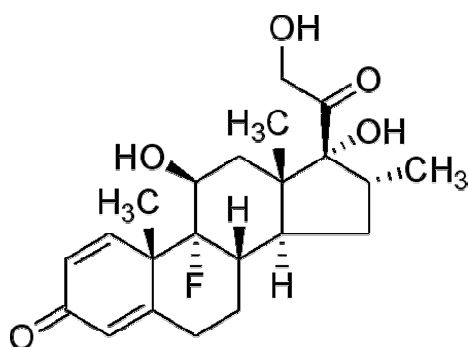
Kit characteristics

- **Microtitre plate:**
12 x 8 break 4 wells
- **Antibody cross reactivity:**
 - Flumethasone 125%
 - Dexamethasone 100%
 - Betamethasone 93%
 - Triamcinolone 33%
 - Prednisolone 21%
 - Dianabol 8%
 - Methylprednisolone 3%
- **Conjugate:**
Dexamethasone-HRPO stabilized
- **Standard range ready to use:**
0, 0.125, 0.25, 0.5, 1.0, 2.0 and 4.0 ng/ml

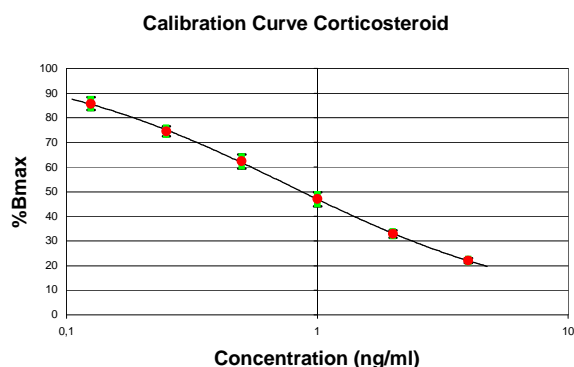
- **Shelf life:**
Maximum shelf life 12 months.
Kit components are reusable after opening the kit.

Assay procedure

Antibody, conjugate and standard/sample are pipetted into the wells and incubated for 1 hour in the dark at room temperature (20°C – 25°C). After a washing procedure ready to use substrate is added and incubated for 30 minutes at room temperature. The reaction is stopped and the absorbance is read in a spectrophotometer at 450 nm. A calculation program is available upon request.



Dexamethasone



Assay characteristics

Matrices and sample preparation,

Milk: direct after defatting
Urine: direct after 50 X dilution
Urine: hydrolysis and ethyl acetate extraction
Muscle, liver I: ethyl acetate extraction, defatting
Muscle, liver II: acetonitrile extraction, defatting
Feed I: ethyl acetate extraction

LOD (ppb) ^{*1}	Recovery Rate ^{*1}
0.2	>90%
12	>90%
3	>90%
0.2	63%
1	>90%
0.6	>90%

^{*1} LOD(Limit of Detection) and Recovery data are given for dexamethasone; Validation according SANCO/1085/2000.