# CHLORAMPHENICOL EIA (5091CAP1p)

General

The Chloramphenicol (CAP) EIA is a competitive enzyme immunoassay for the detection of CAP and its major metabolite (CAP-glucuronide) in a variety of matrices. This kit has a unique sensitivity, robustness and reproducibility, which has resulted in a leading market position for already several years.

Kit characteristics

- **Antibody cross reactivity:**

CAP	100%
CAP glucuronide	65%
CAP-base	< 1%
Thiamphenicol	< 1%
Florphenicol	< 1%
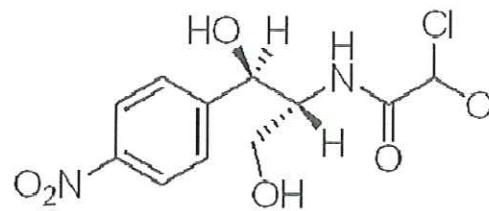
Chemical structure of chloramphenicol

- **Kit contents:**
  Microtitre plate, 12 x 8, break 4 wells
  Sample dilution buffer (20 ml, 4x concentrated)
  Rinsing buffer (30 ml, 20x concentrated)
  Substrate solution (12 ml, Ready to use)
  Stop solution (15 ml, Ready to use)
  Conjugate (lyophilised)
  Antibody (lyophilised)
  CAP standards, 1 ml ready to use 0.025, 0.05, 0.1, 0.2, 0.5, 2 and 100 ng/ml
  Reconstitution/zero standard buffer (10 ml)

 | | |
  |---|---|
  | Inter Assay variation: | 8% |
  | Intra Assay variation: | 6% |

Assay procedure

Antibody, conjugate and sample/standard are pipetted into the wells of the microtitre plate and incubated for 1 hour at 2°C - 8°C.
After a washing procedure ready to use substrate is added and incubated for 30 minutes at room temperature. Stop the reaction and read in a spectrophotometer at 450 nm.
A calculation program is available upon request.

Calibration Curve

- **Shelf life:**
  Maximum 16 months.
  Kit components are reusable after opening the kit
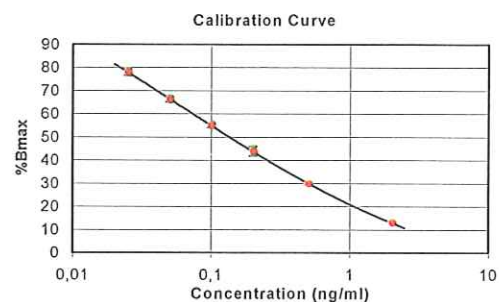
Assay characteristics

Matrices and sample preparation	LOD (ppb)[2]	Recovery Rate[2]
Urine, milk, milkpowder: direct after dilution, defatting.	0.1	>90%
Urine, milk, serum: ethylacetate extraction, defatting.	0.01	>90%
Tissue[1], egg, honey: ethylacetate extraction, defatting.	0.01/0.02	>80%
Feed: ethylacetate extraction, defatting.	0.1	>90%

[1] Tissues: meat, crab, shrimp, fish, liver.
[2] LOD(Limit of Detection) and Recovery data; Validation according SANCO/1085/2000.
  Other matrices available upon request (Royal Jelly)

[3]08