

GENTAMICIN EIA (5111GEN1p)

General

Gentamicin belongs to a group of carbohydrate containing antibiotics called aminoglycosides. All the aminoglycosides are potentially toxic compounds causing significant damage in vestibular and auditory functions in humans as well as in animals. In combination with the Streptomycin and Neomycin EIA we offer a unique panel for the detection of these three aminoglycosides in a range of matrices.

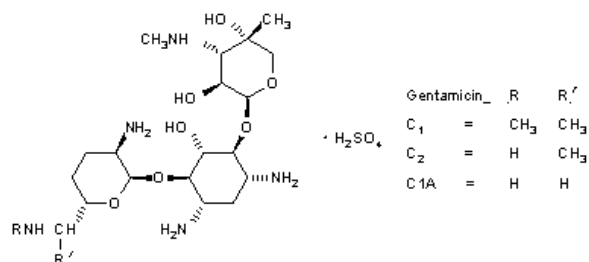
Kit characteristics

- **Microtitre plate:**
12 x 8 break 4 wells
- **Antibody cross reactivity:**
 - Gentamicin 100%
 - Sisomycin 25%
 - Neomycin < 0.1%
 - Kanamycin < 0.1%
- **Conjugate**
Gentamicin-HRPO stabilized
- **Standard range ready to use:**
0, 0.25, 0.5, 1.0, 5.0, 10 and 50 ng/ml
Standard solution: 100 ng/ml
- **Shelf life:**
Maximum 16 months.
Kit components are reusable after opening the kit.

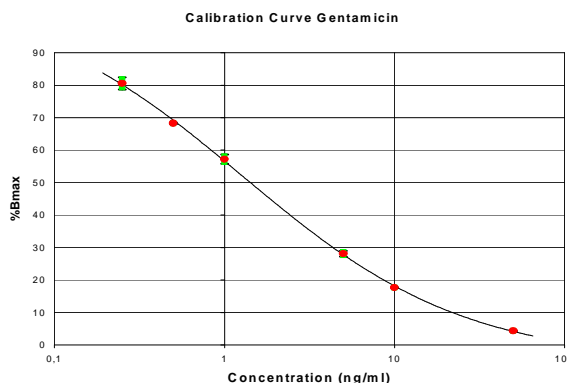
Assay procedure

Antibody, conjugate and sample/standard are pipetted into the wells 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



Chemical structure of Gentamicin



Assay characteristics

Matrices and sample preparation,

Milk, serum: direct after dilution
Tissue, feed: trichloroacetic extraction
Egg: homogenisation and dilution
Urine: direct after dilution
Honey: after dilution
Honey: after solid phase extraction

LOD (ppb)^{*1}

2
10
1
4
5
2.5

Recovery Rate^{*1}

>90%
>90%
>90%
>90%
>80%
>80%

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