



DIMETRIDAZOLE ELISA (5091DIME)

General

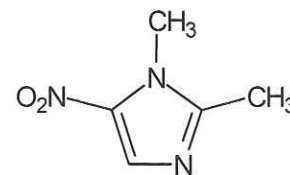
Dimetridazole (DMZ) is a 5-nitroimidazole drug, traditionally used for the prevention and treatment of histomoniasis in turkeys, trichomoniasis in pigeons, genital trichomoniasis in cattle and the prevention and treatment of haemorrhagic enteritis in pigs. DMZ is listed in Annex IV of Council Regulation 2377/90/EC, and is thus banned from the use in food-producing animals. Poisoning is manifested by infertility, and hepatic and renal insufficiency.

The dimetridazole ELISA is a competitive enzyme immunoassay for screening on the presence of dimetridazole residues in tissue, milk, egg and urine. Samples are measured in duplicate which means that in total 40 samples can be analysed.

Kit characteristics

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

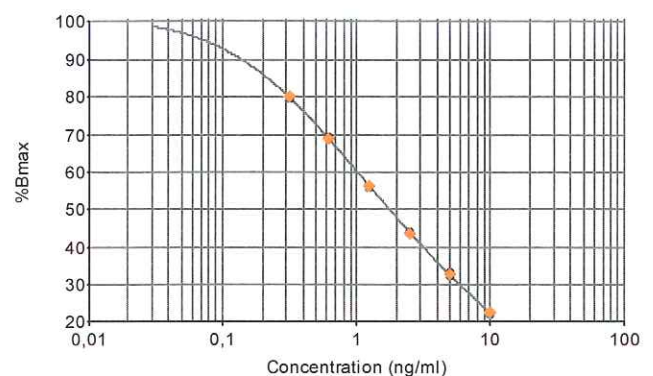
| | |
|----------------------|---------|
| Dimetridazole | 100% |
| Metronidazole | 7.4% |
| Hydroxydimetridazole | 5.3% |
| Ronidazole | 8.5% |
| Ipronidazole | 7.4% |
| Nicarbazin | 0.1% |
| Halofuginone | < 0.02% |
| Diclazuril | < 0.02% |
| Robenidine | < 0.02% |
| Hydroxymetronidazole | 0.1% |
| Hydroxyipronidazole | 0.5% |
- **Conjugate:**
Sulfonamide-HRP stabilized
- **Standard range (ready-to-use):**
0, 0.313, 0.625, 1.25, 2.5, 5.0, and 10.0 ng/ml



Chemical structure of dimetridazole (DMZ)

Assay procedure

Microtiter wells are coated with anti-dimetridazole antibodies. Dimetridazole standards or samples and enzyme conjugate are added and incubated for 1 hour at +4°C. After a washing procedure, ready-to-use substrate/chromogen is added and incubated for 30 minutes at RT (20° - 25°C). The reaction is stopped and a read-out is performed in a spectrophotometer at 450 nm.



Assay characteristics

| Matrices and sample preparation | LOD (ppb)* ¹ |
|---------------------------------|-------------------------|
| Tissue | 0.3 |
| Milk | 0.3 |
| Egg | 0.3 |
| Serum | 0.3 |

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

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