CLENBUTEROL ELISA (5071BAGC)

General

The Clenbuterol ELISA is used for screening on the presence of clenbuterol and related compounds in biological matrices as urine, liver, tissue and feed samples. Control is necessary since the use of β-agonists as feed additives is not permitted in the European Community.

The **Clenbuterol ELISA** is a competitive enzyme immunoassay based on antibodies directed against clenbuterol.

Kit characteristics

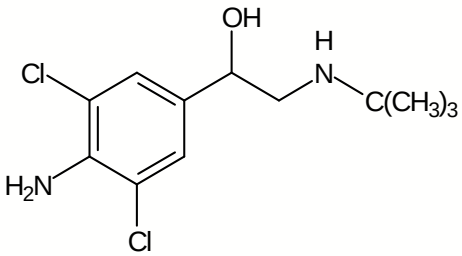
***Microtiter plate*:**
96 Wells
12 x 8 Breakapart

***Antibody cross-reactivity*:**

Clenbuterol	100%	Salbutamol	6%
Bromobuterol	100%	Cimaterol	6%
Mapenterol	80%	Carbuterol	5%
Mabuterol	70%	Terbutaline	4%
Cimbuterol	60%	Pirbuterol	4%

Conjugate:
Clenbuterol-HRP stabilized

Standard range (ready-to-use):
0, 0.125, 0.25, 0.5, 1.0, 4.0 and 8.0 ng/ml



Chemical structure of clenbuterol

Assay characteristics

	LOD (ppb)				
	Urine	Faeces, liver, kidney plasma/bile	Muscle	Retina Choroid	Feed
Clenbuterol	0.05	0.2	0.1	0.5	5
Bromobuterol	0.05	0.2	0.1	0.5	5
Mapenterol	0.06	0.3	0.1	0.6	6
Mabuterol	0.07	0.3	0.1	0.7	7
Cimbuterol	0.08	0.3	0.2	0.8	8

The Limit of detection (LOD) is calculated as: Xn+3SD and is determined under optimal conditions.

Sample preparation
For urine, faeces, liver, kidney, plasma/bile, muscle, retina, choroid and feed fast and efficient extraction methods are included in the kit manual.

Procedure
Antibody, conjugate and sample/standard are pipetted into the wells and incubated for 30 minutes at 20°C - 25°C. After a washing procedure ready-to-use substrate is added and incubated for 15 minutes at 20°C - 25°C. The reaction is stopped and the absorbance is read in a spectrophotometer at 450 nm.
EuroProxima's user-friendly software converts the measured optical density into the concentration of the metabolite in the starting material.