



EuroProxima
Close to your analysis

B-AGONIST ELISA (5061BAG)

General

The use of β -agonists as feed additives is not permitted in the European Community and therefore has to be controlled.

EuroProxima offers an ELISA test based on a mixture of two antibodies, which results in a generic kit for β -Agonistic drugs.

The **B-Agonist ELISA** is a competitive enzyme immunoassay based on a mixture of antibodies raised against salbutamol and clenbuterol.

Kit characteristics

Microtiter plate:

96 Wells
12 x 8 Breakapart

Antibody cross-reactivity:

Salbutamol	100%	Tulobuterol	50%
Clenbuterol	100%	Clenpenterol	50%
Bromobuterol	100%	Clenproperol	50%
Cimbuterol	75%	Carbuterol	40%
Mapenterol	70%	Terbutaline	40%
Mabuterol	60%	Cimaterol	10%

Conjugate :

Salbutamol-HRP stabilized

Standard range (ready-to-use):

0, 0.0625, 0.125, 0.25, 0.5, 1.0 and 2.0 ng/ml

Assay characteristics

	Matrices	LOD (ppb)
Salbutamol/ Clenbuterol	urine (direct)	0.75
	urine(liquid extraction)	0.1
	faeces, liver, kidney, bile, plasma	0.25
	muscle	0.2
	retina	0.8
	feed	10
Clenbuterol	milk	0.03

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

Sample preparation

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

Procedure

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