



β-AGONIST FAST ELISA (5061BAGFc)

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 fast ELISA** is a competitive enzyme immunoassay based on antibodies directed against clenbuterol and salbutamol.

Kit characteristics

Microtiter plate:

96 Wells
12 x 8 Breakapart

Antibody cross-reactivity:

Clenbuterol	100%	Carbuterol	40%
Salbutamol	90%	Mapenterol	35%
Cimbuterol	90%	Cimaterol	20%
Bromobuterol	80%		
Mabuterol	60%		
Terbutaline	45%		

Conjugate:

Clenbuterol-HRP stabilized

Standard range (ready-to-use):

0, 0.063, 0.125, 0.25, 0.5, 1.0 and 2.0 ng/ml

Assay characteristics

Matrices

LOD (ppb)

urine	0.15
faeces, kidney, bile, plasma	0.25
liver	0.1
tissue	0.1
milk	0.04
feed	1.0

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

Sample preparation

For urine, faeces, kidney, bile, plasma, liver, tissue, milk and feed 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 30 minutes at 20°C - 25°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.