



EUROPEAN COMMISSION
JOINT RESEARCH CENTRE

Institute for Reference Materials and Measurements (Geel)

CERTIFIED REFERENCE MATERIAL BCR[®] – 502

CERTIFICATE OF ANALYSIS

LYOPHILISED BOVINE URINE	
	Concentration
	Certified value ¹⁾ [µg/L]
Clenbuterol	< 0.1
Salbutamol	< 0.2
1) The certified value is with a 95 % confidence interval below the stated value. The certified value is traceable to the International System of Units (SI).	

This certificate is valid for one year after purchase.

Sales date:

The reconstituted material can be assumed to be a pure, homogenous solution. Therefore no minimum sample intake is defined. The entire content of the ampoule must be reconstituted.

DESCRIPTION OF THE SAMPLE

The CRMs are supplied in lyophilised form, sealed under nitrogen in brown glass vials. The content of a vial are equivalent to 5.0 mL of fresh bovine urine.

NOTE

This material has been certified by BCR (Community Bureau of Reference, the former reference materials programme of the European Commission). The certificate has been revised under the responsibility of IRMM.

Brussels, October 2000
Latest revision: September 2013

Signed: _____

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Joint Research Centre
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ANALYTICAL METHOD USED FOR CERTIFICATION

The certification measurements were carried out by National Reference Laboratories (NRLs) of the EU member states. They used their in-house gas chromatography-mass spectrometry (GC/MS) or liquid chromatography/mass spectrometry (LC/MS) methods, which satisfy the analytical performance criteria laid down in Commission Decision (EC) No 93/256.

PARTICIPANTS

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SAFETY INFORMATION

The usual laboratory safety precautions apply.

INSTRUCTIONS FOR USE

Prior to use, the sealed vial should be brought to room temperature by keeping in the dark at room temperature for at least 30 minutes.

- Tap the vial well before opening.
- Open the vial and add 5.0 mL of distilled water at 20 °C to the content.
- Vortex the mixture gently for at least 2 minutes.
- Add the appropriate amount of internal standard and vortex further for 2 minutes.
- Allow the sample to equilibrate by leaving the vial overnight at 4 °C in the dark.
- The sample should be used the day after reconstitution.

Dispose in accordance with good laboratory practice.

STORAGE

The vials should be stored in the dark at - 20 °C. However, the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises, especially of opened samples.

LEGAL NOTICE

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NOTE

A technical report on the production of BCR[®]-502 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.