

EUROPEAN COMMISSION

Institute for Reference Materials and Measurements



CERTIFIED REFERENCE MATERIAL BCR[®] – 504

CERTIFICATE OF ANALYSIS

LYOPHILISED BOVINE URINE				
	Concentration			
	Certified value ¹⁾ [µg/L]	Uncertainty ²⁾ [µg/L]		Number of accepted sets
		Relevant below the certified value	Relevant above the certified value	of data p
Clenbuterol Salbutamol	6.0 5.6	0.5 1.1	0.7 1.9	17 16
 The certified value is the median value of the p accepted sets of data, each set being obtained in a different laboratory and/or with a different method of determination. The certified value is traceable to the International System of Units (SI). The certified uncertainty is based on the 90 % limits of p accepted sets of data. 				

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.

Signed:

Brussels, October 2000 Revised: May 2007

Prof. Dr. Hendrik Emons Unit for Reference Materials EC-JRC-IRMM Retieseweg 111 2440 Geel, Belgium

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

aesundheitlichen Verbraucherschutz Bundesinstitut für und Veterinärmedizin (BGVV), Gemeinschaftlichen Referenzlaboratorien der Europäischen Union, Berlin (DE) Centre d'Economie Rurale, Laboratoire d'Hormonologie, Marloie (BE) Chemisches Landes- und Staatliches Veterinäruntersuchungsamt, Münster (DE) Ecole Nationale Vétérinaire, LDH/Ecole Nationale Vétérinaire, Nantes (FR) Food Science Laboratory, CSL, Norwich (UK) Institut d'Hygiène et d'Epidémiologie, Bruxelles (BE) Istituto Superiore di Sanità, Laboratorio di Medicina Veterinaria, Roma (IT) Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta, Torino (IT) Laboratori Agroalimentari de la Generalitat de Catalunya, Cabrils (ES) Lebensmittel- und Veterinäruntersuchungsamt des Landes Schleswig-Holstein, Neumünster (DE) Livsmedelsverket, Uppsala (SE) Rijksinstituut voor Kwaliteit in de Land- en Tuinbouw (RIKILT-DLO), Wageningen (NL) Rijksinstituut voor Volksgezondheid en Milieu, Laboratorium voor residue-analyse, Bilthoven (NL) Rijksontledingslaboratorium, Gentbrugge (BE) State Laboratory, Abbotstown, Castleknock, Dublin (IE) The National Food Centre, Dunsinea, Castleknock, Dublin (IE) Université de Liège, Faculté de Médecine Vétérinaire, Laboratoire d'Analyse des Denrées Alimentaires,

Liège (BE)

Veterinary Sciences Division, Department of Agriculture for Northern Ireland, Belfast (UK)

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.

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

Neither IRMM, its subsidiaries, its contractors nor any person acting on their behalf,

(a) make any warranty or representation, express or implied that the use of any information, material, apparatus, method or process disclosed in this document does not infringe any privately owned intellectual property rights; or

(b) assume any liability with respect to, or for damages resulting from, the use of any information, material, apparatus, method or process disclosed in this document save for loss or damage arising solely and directly from the negligence of IRMM or any of its subsidiaries.

NOTE

A technical report on the production of BCR[®]-504 is available on the internet (<u>http://www.irmm.jrc.be</u>). A paper copy can be obtained from IRMM on request.

European Commission – Joint Research Centre Institute for Reference Materials and Measurements (IRMM) Retieseweg 111, 2440 Geel (Belgium) Telephone: +32-(0)14-571.722 - Telefax: +32-(0)14-590.406