



CERTIFIED REFERENCE MATERIAL BCR[®] – 674

CERTIFICATE OF ANALYSIS

CLENBUTEROL IN RECONSTITUTED BOVINE EYE			
	Mass fraction (µg/kg wet eye material)		Number of accepted sets of data p
	Certified value ¹⁾	Uncertainty ²⁾	
Clenbuterol free base	9.4	1.1	11
1) Unweighted mean of the means of p accepted sets of data, each set being obtained in a different laboratory and/or with a different method of determination. The value is traceable to the International System of Units (SI). 2) The certified uncertainty is the expanded uncertainty with a coverage factor k = 2 corresponding to a level of confidence of about 95 % estimated in accordance with ISO/IEC Guide 98-3, Guide to the Expression of Uncertainty in Measurement (GUM:1995), ISO, 2008..			

This certificate is valid for one year after purchase.

Sales date:

The whole material should be reconstituted at once. Subsampling of dry material is not recommended.

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, November 2002
Latest revision: March 2011

Signed: _____

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Joint Research Centre
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DESCRIPTION OF THE SAMPLE

The reference material is supplied in lyophilised form sealed under vacuum in brown glass vials. The material consists of the equivalent of 2.00 ± 0.01 g (0.5 %) wet bovine eye material in sealed glass vials. It is a greyish powder obtained after lyophilisation and has to be reconstituted before use.

ANALYTICAL METHOD USED FOR CERTIFICATION

Analyses were done using GC-(ID)MS, LC-MS-MS and HPLC-DAD.

PARTICIPANTS

- Central Laboratory RVV, Wageningen (NL)
- Centre of the Athenian Veterinary Institutions of Food Hygiene, Athens (GR)
- Chemical and Veterinary Research Office, Münster (DE)
- Chemical and Veterinary Research Office Stuttgart, Fellbach (DE)
- Federal Health Institute for Health Protection of Consumers and Veterinary Medicine, Berlin (DE)
- Laboratory of Hormone Research, Marloie (BE)
- National Center of Nutrition, Unidad de Residuos Zoosanitarios, Madrid (ES)
- National Institute for Public Health and The Environment (RIVM), Bilthoven (NL)
- National Laboratory for Veterinary Research, Lisbon (PT)
- National Veterinary and Food Research Institute, Helsinki (FI)
- National Veterinary School of Nantes, Reference Laboratory, Nantes (FR)
- Netherlands Organization for Applied Scientific Research, TNO Voeding, Zeist (NL)
- Research Institute of Public Health, Louis Pasteur, Brussels (BE)
- State Laboratory, Dublin (IE)
- State Institute for Quality Control of Agricultural Product (RIKILT-DLO), Wageningen (NL)
- State Veterinary Office, Hanover (DE)
- Veterinary Laboratories Agency, Surrey (GB)
- Veterinary Sciences Division, Belfast (GB)

SAFETY INFORMATION

The usual laboratory precautions apply.

INSTRUCTIONS FOR USE

The material is intended to check method accuracy.

Allow the vial to warm up (keep in the dark at room temperature for at least 30 min). Add 9.90 ± 0.02 g of de-ionised water. Swirl thoroughly and when applicable, add the necessary amount of internal standard. The reference material can then be used.

STORAGE

The material should be stored at -20 ± 5 °C in the dark. 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.

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NOTE

A technical report on the production of BCR[®]-674 is supplied on the internet (<http://www.irmm.jrc.be/mrm.html>). A paper copy can be obtained from IRMM on request.