



CERTIFIED REFERENCE MATERIAL BCR[®] – 651

CERTIFICATE OF ANALYSIS

BEER, NOMINAL 0.5 % VOL		
	Volume fraction	
	Certified value ¹⁾ [%]	Uncertainty ²⁾ [%]
Ethanol	0.505	0.006
1) This value is the unweighted mean of 13 accepted results obtained independently by different laboratories. This value is specific to the GC-FID method in Annex I of the certification report. 2) Half-width of the 95 % confidence interval of the mean.		

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample to be used is 2 mL.

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 1997

Revised: February 2007

Signed: _____

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

DESCRIPTION OF THE SAMPLE

Amber glass ampoule, flushed with nitrogen, containing 10 mL of sample.

ANALYTICAL METHOD USED FOR CERTIFICATION

All participants used the Candidate Official Method for the determination of low levels of alcohol in beverages. The certification report contains a copy of this method in Annex I.

PARTICIPANTS

Preparation; homogeneity and stability testing; technical coordination

Laboratory of the Government Chemist, Teddington (GB)

Certification analyses

Agencia Tributaria, Madrid (ES)

Bass Brewers Ltd, Burton-on-Trent (GB)

Cockburn, Smithes & Cia Lda, Vila Nova de Gaia (PT)

Customs Laboratory, Amsterdam (NL)

Force Instituttet, Brøndby (DK)

Hellenic State Laboratory, Athens (GR)

Institut Chimica da Sarria, Barcelona (ES)

Laboratorio Chimico Centrale, Rome (IT)

Laboratory of Customs and Excises, Leuven (BE)

Laboratory of the Government Chemist, Teddington (GB)

State Laboratory, Dublin (IE)

Tickle & Reynolds, Exeter (GB)

Zolltechn., Prüfungs und Lehranstalt, München (DE)

SAFETY INFORMATION

Not applicable.

INSTRUCTIONS FOR USE

Before opening, ampoules should be allowed to attain room temperature. Once opened, the contents should be used immediately and the ampoule should not be stored for future use.

STORAGE

Ampoules should be stored in a refrigerator at approximately 4 °C. Temperatures below 4 °C are contra-indicated because precipitation can occur.

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-651 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.