



CERTIFIED REFERENCE MATERIAL BCR[®] – 154

CERTIFICATE OF ANALYSIS

DIBENZ[a,j]ACRIDINE		
	Mass fraction	
	Certified value ¹⁾ [g/g]	Uncertainty ²⁾ [g/g]
Dibenz[a,j]acridine	0.9990	+ 0.0007 - 0.0010
<p>¹⁾ The certified value was calculated from the average of the accepted datasets. The certified value is traceable to the SI.</p> <p>²⁾ The certified uncertainty is the expanded uncertainty estimated in accordance with the Guide to the Expression of Uncertainty in Measurement (GUM) with a coverage factor $k = 2$, corresponding to a level of confidence of about 95 %.</p>		

This certificate is valid for one year after purchase.

Sales date:

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

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 1983

Latest revision: May 2008

Signed: _____

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DESCRIPTION OF THE SAMPLE

The material is available in a brown glass bottle, containing 100 mg.

ANALYTICAL METHOD USED FOR CERTIFICATION

- Gas liquid chromatography (GLC)
- High performance liquid chromatography (HPLC)
- Mass spectrometry (GC/MS and direct inlet MS)

PARTICIPANTS

- Biochemisches Institut für Umweltcarcinogene, Ahrensburg (DE)
- BP Research Centre, Sunbury-on-Thames (GB)
- Bundesanstalt für Materialprüfung (B.A.M.), Berlin (DE)
- Centre d'Etudes et de Recherches des Charbonnages de France, Verneuil (FR)
- CNR, Laboratorio sull'Inquinamento Atmosferico, Roma (IT)
- Energieonderzoek Centrum Nederland, Petten (NL)
- Instituut voor Toegepaste Chemie, TNO, Delft (NL)
- Instituut voor Toegepaste Chemie, TNO, Utrecht (NL)
- Istituto Superiore di Sanità, Roma (IT)
- Joint Research Centre, Petten (NL)
- Laboratoire Central de la Préfecture de Police, Paris (FR)
- National Physical Laboratory, Teddington (GB)
- Universiteit Leiden, Gorlaeus Laboratory (NL)
- Vrije Universiteit, Subfaculteit Scheikunde, Amsterdam (NL)

SAFETY INFORMATION

Carcinogen. The material must be handled with great care, especially avoiding skin contamination, ingestion or inhalation.

- R45 : May cause cancer.
- S53 : Avoid exposure - obtain special instructions before use.
- S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible).

INSTRUCTIONS FOR USE

Homogeneity has been demonstrated at the 2 mg level. It is therefore recommended that not less than this amount is used in preparation of calibrant solutions. Solutions prepared for calibration purposes should be protected from extended exposure to light and air. Discard solutions after use in accordance with appropriate safety regulations for carcinogens or cancer suspect agents.

STORAGE

The material should be stored in darkness under cool conditions to prevent photo-oxidation reactions. 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-154 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.