



# CERTIFIED REFERENCE MATERIAL BCR<sup>®</sup> – 537

## CERTIFICATE OF ANALYSIS

PLASTIC FILM A		
	Mass per surface area	
	Certified value <sup>1)</sup> [mg/dm <sup>2</sup> ]	Uncertainty <sup>2)</sup> [mg/dm <sup>2</sup> ]
Overall migration into olive oil (Total immersion, 10 days at 40 °C)	8.3	1.0
1) This value is the unweighted mean of the means of the accepted sets of results independently obtained by 8 laboratories. The certified value is traceable to the overall migration method by total immersion as outlined in the European standard procedure EN 1186-2 (see Appendix 3 of the certification report) and the additional instructions in Section 9 of the certification report.		
2) The uncertainty is taken as the half-width of the 95 % confidence interval of the mean defined above.		

This certificate is valid for one year after purchase.

Sales date:

The amount of sample to be used, according to the instructions of EN 1186-1 and EN 1186-2 European standard procedures, is a test piece of 25 mm x 100 mm.

### DESCRIPTION OF THE SAMPLE

The material consists of an additive-free linear low density polyethylene. It is supplied in units of dimensions 33 cm x 22.5 cm sufficient for one complete test as specified in the EN 1186 standard procedure and the additional instructions of Section 9 in the certification report. Each unit is individually packed in PET/foil/PE heat sealed pouches under normal ambient atmosphere.

### 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, April 1998  
Revised: March 2007

Signed: \_\_\_\_\_

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

## **ANALYTICAL METHOD USED FOR CERTIFICATION**

The EN 1186-2 standard procedure for the measurement of overall migration into olive oil was used together with the additional instructions outlined in Section 9 of the certification report (see Appendix 3).

## **PARTICIPANTS**

### **1 Preparation of reference material**

PIRA International, Leatherhead (GB)

### **2 Homogeneity and stability studies**

Istituto Superiore di Sanità, Roma (IT)

PIRA International, Leatherhead (GB)

### **3 Analyses within the certification studies**

ADRIAC<sup>1)</sup>, Reims (FR)

CSL Food Science Laboratory, Norwich (GB)

Food Inspection Service, Utrecht (NL)

Fraunhofer Institute<sup>1)</sup>, Freising (DE)

Gaiker, Zamudio (ES)

ICI Research and Technology Centre, Wilton (GB)

Instituto Nacional de Saude, Lisboa (PT)

Laboratori General d'Assaigs Investgacions<sup>1)</sup>, Barcelona (ES)

LNE<sup>1)</sup>, Paris (FR)

NATEC<sup>1)</sup>, Hamburg (DE)

National Food Agency of Denmark<sup>1)</sup>, Søborg (DK)

PIRA International, Leatherhead (GB)

RCC Umweltchemie AG<sup>1)</sup>, Itingen (CH)

TNO Nutrition and Food Research, Zeist (NL)

VTT Biotechnology and Food Research, Espoo (FI)

<sup>1)</sup> Participation in the 1<sup>st</sup> certification exercise only. All other laboratories participated also in the 2<sup>nd</sup> certification exercise, which has been used for value assignment.

## **SAFETY INFORMATION**

Regular safety precautions in a normal laboratory environment.

## **INSTRUCTIONS FOR USE**

The overall migration test procedure should be followed exactly as specified in the EN 1186 standard procedure, incorporating the additional instructions specified in Section 9 of the certification report. When the reference material is used to assess the performance of a method, the user should refer to section 9 (instructions for use) of the certification report.

## **STORAGE**

Unopened pouches can be stored at 4 °C. 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-537 is supplied on the internet (<http://www.irmm.jrc.be/mrm.html>). A paper copy can be obtained from IRMM on request.