

Name of the Material : 10 % Pork in Beef (Lyophilized)

Reference Material Code : UME RM 1003-2

Issue Date : 08.03.2019

Last Revision Date : 08.03.2019 (Revision history can be found on the last page)

Validity Period : 6 months from the sales date.

Assigned Value :

Parameter	Assigned Value ^[1] (%, w/w)
Pork / (Beef + Pork) Fraction	10.0

[1] The mixture was prepared gravimetrically. Weighings were made using calibrated balances that were checked with appropriate weight sets. The balances and weight sets are traceable to national measurement standards realizing the units defined in the International System of Units (SI).

Sales Date


Dr. Mustafa ÇETİNTAŞ
Director

Description

Fat-free, ground beef and pork were weighed gravimetrically, and mixed to form a mixture containing 10 % pork. The lyophilized material was ground, sieved into powder, and packed in an amber vial as 0.5 g. A 0.5 g of lyophilized sample is equivalent to approximately 2 g wet meat sample.

The homogeneity and stability tests of the material prepared as a mixture were carried out by Polymerase Chain Reaction (PCR) technique.

Intended Use

The material is suitable for use in quality control studies of meat and meat-containing products for pork and beef identification.

Instructions for Use

The content of the vial must be mixed before use. The minimum sample intake amount is 50 mg. It is recommended to homogenize the sample by diluting it with water in the ratio of 1:3 (w / v) to represent the natural meat sample, and to take necessary precautions against the risk of contamination by keeping the vial cap closed as soon as possible after each use.

Storage Conditions

The material should be stored at (5 ± 3) °C in a dry and dark place. It is recommended that the reconstituted sample should be stored at (5 ± 3) °C and used within a week. The material in an unopened vial can be safely dispatched at ambient temperature without applying additional cooling where the temperature does not exceed 60 °C and the transportation period of one week.

TÜBİTAK UME cannot be held responsible for changes that might happen to the material at customer's premises due to noncompliance with the instructions for use, and the storage conditions described in the reference material data sheet.

Safety Information

Usual laboratory precautions apply. It is strongly recommended that the material must be handled and disposed according to the safety guidelines where applicable.

Page 3 / 3	TÜBİTAK NATIONAL METROLOGY INSTITUTE	UME RM 1003-2
------------	---	--------------------------------

Participants

Information about the laboratory participated in the sample preparation and measurement is presented in the following table.

Laboratory	Address
TÜBİTAK UME	TÜBİTAK Gebze Yerleşkesi, Barış Mah. Dr.Zeki Acar Cad. No.1 41470 Gebze / Kocaeli, Turkey

Techniques Used for Determination of the Assigned Values

The material was prepared by gravimetric mixing technique.

Revision History

Date	Remarks
08.03.2019	First publication.

This data sheet shall not be reproduced other than in full except with the permission of TÜBİTAK UME.
Data sheet without signature and seal is not valid.