PRODUCT INFORMATION SHEET

Ethylene oxide / 2-Chlorethanol in Spice Mixture

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	*DLA ptRE02 (2022) Ethylene oxide / 2-Chlorethanol in Spice Mixture*
Identifier / LOT	*RM 2022-RE02*
Expiry date	*January 2027*
Matrix	*Spice Mixture*
Physical description	*Powder*
Packaging / weight	*Sealed foil pouche / 30 g*
Storage conditions	*2 - 10°C (dry and dark)*
Name and address manufacturer	***DLA - Proficiency Tests GmbH*** *Hauptstr. 80, 23845 Oering, Germany* *Tel. ++49-(0)4532-9183358, Fax. ++49(0)4102-9944976* *eMail. pt@dla-lvu.de, website. www.dla-lvu.de*

Composition of Material

Ingredients	**Content**
Paprika powder, spicy	35,0 g/100 g
Turmeric powder	35,0 g/100 g
Curry powder	18,8 g/100 g
ground Pepper, white	5,7 g/100 g

Minimum Sample Size
A minimum sample size of 5 g is recommended for sample preparation.

The mixture homogeneity before bottling was examined 8-fold by microtracer analysis. Homogeneity was sufficient with a probability of ≥ 25% (excellent mixture) and a HorRat value in the range of acceptance (0,3 to 1,3) (for more details see final report of PT).
The calculation of the **repeatability standard deviation S_r of the participants** was used as an indicator of homogeneity. It is 6,7% for the sum of ethylene oxide / 2-chloroethanol. Thus, this value is below the corresponding repeatability standard deviations of precision data of the standardized method (ASU §64 L 53.00-1).

Reference Values
All reference values were derived from the related PT round (for more details see final report).

Reference Values quantitative in mg/kg (sum as ethylene oxide)

Parameter	**Ethylene oxide / 2-Chlorethanol**
Numbers of results	16
Number of outliers	0
Assigned value (Xpt)	***0,145***
Robust standard deviation	0,0550
Standard uncertainty	0,0172
Target standard deviation σpt	0,03900
Target range	***0,067-0,223***

Intended Use

- for laboratory use only, no food!
- validation of analytical methods
- control sample for quality control charts
- test material for inter-laboratory comparisons
- no medical use

Storage Instructions and Handling Information

The material should be stored as stated on page 1. Before use of the material should be warmed up to room temperature. The content should be mixed thoroughly prior to subsampling (see minimum sample size above). The material should be weighed immediately after opening of the foil pouche/bottle and closed again afterwards in order to avoid uptake of moisture. Frequent freezing and thawing should be avoided as this can lead to changes in the properties of the material. The expiry date of this RM is based on the current knowledge and applies only for proper storage conditions in the originally closed foil pouche/bottle.

Safety Precautions

The usual laboratory safety precautions should be applied when working with the RM considering the type of ingredients, parameters and its concentration.

Data Source

The material was analysed by 16 laboratories within the related proficiency test (PT). Different analytical methods have been used.

Various

The user must determine the suitability of this RM for its particular purpose. DLA makes no warranty of any kind, expressed or implied, other than its products meet all quality control standards set by DLA. We do not guarantee this product can be used for a special application.

approved (PT-Coordinator)	updated
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signed M. Besler-Scharf	*signed U. Vorreiter*
3 April 2024	5 February 2026