PRODUCT INFORMATION SHEET

Ethylene oxide / 2-Chloroethanol in Spice Mixture

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	*DLA ptRE02 (2023) Ethylene oxide / 2-Chloroethanol in Spice Mixture*
Identifier / LOT	*RM 2023-RE02*
Expiry date	*December 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, sweet	39,1 g / 100 g
Turmeric powder	43,3 g / 100 g
Pepper powder, black	13,4 g / 100 g
Cayenne powder	4,2 g / 100 g

Note: *The metrological traceability of temperature, mass and volume during production of the PT samples is ensured by DAkkS-compliant calibrated reference materials.*

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

The calculation of the **repeatability standard deviations S_r of the participants** was used as an indicator of homogeneity. The repeatability standard deviation was 5,2% and thus similar to corresponding repeatability standard deviations of precision data of the standardized methods (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-Chloroethanol**
Numbers of results	9°
Number of outliers	1
Assigned value (Xpt)	***0,210***
Robust standard deviation	0,0715
Standard uncertainty	0,0298
Target standard deviation σpt	0,0563
Target range	***0,0973 - 0,323***

° *without outliers*

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 10 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.

Datum / Date: 9 November 2024

Alexandra Scharf, PhD (EP-Koordintaor / PT-Coordinator)
- gezeichnet / signed A. Scharf

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