

PRODUCT INFORMATION SHEET

Hydrogen Cyanide / Hydrogen Cyanic Acid in Almond Flour

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	<i>DLA ptRE04 (2024) Hydrogen Cyanide / Hydrogen Cyanic Acid in Almond Flour</i>
Identifier / LOT	<i>RM 2024-RE04</i>
Expiry date	<i>March 2027</i>
Matrix	<i>Almond Flour</i>
Physical description	<i>Powder</i>
Packaging / weight	<i>Sealed foil pouche / 20 g</i>
Storage conditions	<i>frozen < -18°C (dry and dark)</i>
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
Almond flour partially defatted, bitter almonds organic

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 11,5% and thus similar to corresponding repeatability standard deviations of precision data of the standardized methods (ASU §64 F 0093).

Reference Values

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

Reference Values quantitative in mg/kg

Parameter	Hydrogen Cyanide / Hydrogen Cyanic Acid
Numbers of results	16
Number of outliers	-
Assigned value (X_{pt})	41,4
Robust standard deviation	11,3
Standard uncertainty	3,55
Target standard deviation opt	6,24
Target range	28,9 – 53,9

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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<i>signed M. Besler-Scharf</i>	<i>signed U. Vorreiter</i>
6 April 2025	13 April 2026