PRODUCT INFORMATION SHEET

16-O-Methylcafestol (Methylcafestol), 1,2-Dihydrocafestol (Kahweol) and Cafestol in Coffee Blend

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	*DLA ptAU06 (2026) – Methylcafestol, Kahweol and Cafestol in 3 Coffee Blends –* ***Sample C***
Identifier / LOT	*RM 2026-AU06 C*
Expiry date	*September 2027*
Matrix	*Ground roasted coffee blend*
Physical description	*Powder*
Packaging / weight	*Sealed foil pouche / 20 g*
Storage conditions	*room temperature, long term cooled 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
Coffee, ground roasted, blend with unknown amounts of Arabica / Robusta (commercial blend)

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 / Homogeneity

A minimum sample size of 5 g is recommended for sample preparation.
The homogeneity tests were performed with sample sizes of 5 g (Microtracer analysis).
The mixture homogeneity was examined 10-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).

Reference Values

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

Reference Values quantitative

Parameter	16-O-Methylcafestol	1,2-Dihydrocafestol (Info)	Cafestol (Info)
	mg/kg	mg/kg	mg/kg
Number of results	7**	4**	4**
Number of outliers	1	1	1
Assigned Value (Xpt)	***580***	***3380***	***4243***
Robust standard deviation	122	718	249
Standard uncertainty	57,5	449	155
Target standard deviation σpt	100	581	729
Target range	***380 – 779***	***2218 – 4542***	***2784 – 5702***

* without outliers
(Info): for information only

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 analyzed by 8 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.

created	approved (PT-Coordinator)	updated
Matthias Besler-Scharf, PhD	Matthias Besler-Scharf, PhD	-
signed M. Besler-Scharf	*signed M. Besler-Scharf*	-
6 October 2026	6 October 2026	-