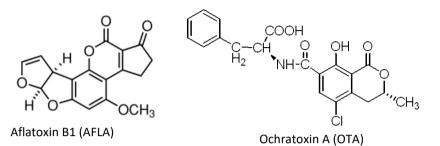
## aokin ReferenceMatrixMaterial

### AFLA OTA

Order No.: RMM-34-2602r

for analysis of Aflatoxin total (AFLA) and Ochratoxin A (OTA) in Animal feed



### Specification

Lot No.	342602230118275		
Matrix Type	Animal feed		
Analyte	Aflatoxin total (AFLA), Ochratoxin A (OTA)		
Weight/Volume	50 g		
Storage	-18 °C		
Retest	01/2026		

	Concentration $x_{PT}$ [µg/kg]	data points n	satisfactory range $x_{PT}~\pm 2~\sigma_{PT}~[\mu  m g/kg]$	uncertainty* $2 u(x_{PT})[\mu g/kg]$
Aflatoxin B1	26,01	13	10,14 - 41,88	6,64
Aflatoxin B2	2,74	10	1,37 - 4,10	0,48
Aflatoxin G1	presence**	11	nd	nd
Aflatoxin G2	1,19	9	0,48 - 1,90	0,38
Aflatoxin total	37,93	12	15,84 - 60,02	9,66
Ochratoxin A	18,78	9	6,55 - 31,01	5,48

\*Expanded uncertainty with k=2 for approximately 95% level of confidence (PA/PH/OMCL(18)153R1 CORR Evaluation of Measurement Uncertainty - Annex 2.5).

\*\*It was not possible to assign a value or an uncertainty due to a high uncertainty. Arithmetic mean was 7,45  $\mu$ g/kg for Aflatoxin G1.

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#### Comments

*aokin* reference matrix material is naturally contaminated and homogenized. Concentration of the analyte is determinate in a proficiency round. Unweighted mean value of the means of accepted sets of data, each set being obtained in a different laboratory and/or with a different method of determination such as HPLC--MS/MS, HPLC/FLD, LC-MS/MS.

The certified value and its uncertainty are traceable to the International System of Units (SI) as chemical mass fraction as  $\mu g/kg$ . The assigned value, the satisfactory range and the expanded uncertainty are given. The minimum amount of sample to be used is 10 g.

#### Calculation of the assigned value $x_{PT}$

The Assigned Value is the value attributed to a particular property of interlaboratory proficiency test (definition from ISO13528:2016).  $x_{PT}$  is derived from participants quantitative results obtained with confirmatory analysis. The procedure for determining is from the Algorithm A (ISO 13528:2016) or from the median.

The standard uncertainty is expanded by a factor f = 1,25 and is calculated as:  $u(x_{PT}) = f \frac{\sigma_{PT}}{\sqrt{n}}$  (uncertainty of the characterization) where:

- $\sigma_{PT}$  is the robust estimate of the participant standard deviation;
- $\sigma_{PT} = b \cdot x_{PT}$  where b is the relative robust estimate of the participant standard deviation
- n is the number of participants used in calculating the robust assigned values.

The satisfactory range is calculated from the expanded (k=2) standard deviation of the proficiency assessment: The satisfactory range equals  $x_{PT} \pm 2 \sigma_{PT}$ .