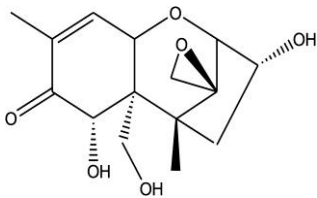
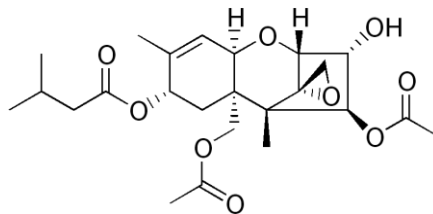


## DON T2/HT2

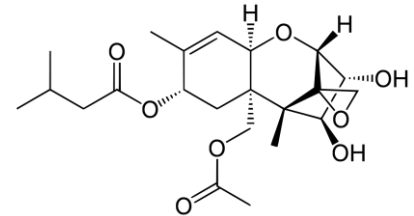
for analysis of Deoxynivalenol (DON)  
and T2- and HT2-Toxin (T2/HT2) in Wheat



Deoxynivalenol (DON)



T2-Toxin (T2)



HT2-Toxin (HT2)

### Specification

Lot No.	2782603230118275
Matrix Type	Wheat
Analyte	Deoxynivalenol (DON), T2- and HT2-Toxin (T2/HT2)
Weight/Volume	50 g
Storage	-18 °C
Retest	01/2026

	Concentration $x_{PT}$ [µg/kg]	data points n	satisfactory range $x_{PT} \pm 2 \sigma_{PT}$ [µg/kg]	uncertainty* $2 u(x_{PT})$ [µg/kg]
Deoxynivalenol	1307,90	10	784,74 – 1831,06	191,02
T2-Toxin	presence**	8	nd	nd
HT2-Toxin	75,50	8	34,67 – 116,33	19,92
T2/HT2-Toxin total	89,71	8	48,44 – 130,98	15,94

\*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.

## 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/DAD, HPLC/UV, LC-MS/MS, UHPLC-MS/MS, HPLC/FLD, UHPLC.

The certified value and its uncertainty are traceable to the International System of Units (SI) as chemical mass fraction as  $\mu\text{g}/\text{kg}$ . 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:

$$u(x_{PT}) = f \frac{\sigma_{PT}}{\sqrt{n}} \text{ (uncertainty of the characterization)}$$

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  $x_{PT} \pm 2 \sigma_{PT}$ .