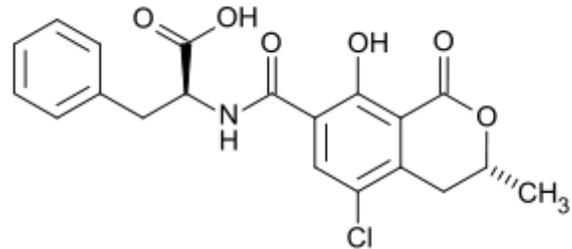


Ochratoxin A Standard (solid)

Order-No: CH-04-S1

Lot: xxx xxx xxx xxx



Analyte: Ochratoxin A (OTA)

Specification:

Substance:	Ochratoxin A, Benzene free	
Source:	From <i>Aspergillus ochraceus</i>	
Empirical Formula:	C ₂₀ H ₁₈ ClNO ₆	
Appearance:	Off-white powder	
Solubility:	Clear yellow solution at 10 mg/ml Methanol	
Melting point:	105-109°C	
Molecular Weight:	403,8	
Approved:	Detection: spray with H ₂ SO ₄ and heat	
	TLC (NP, Toluene, ETOAC, ACOH 6:3:1)	>99%
	TLC (RP C18, Methanol, H ₂ O 9:1)	>99%
	HPLC	98.19%
	Lambda max	(Methanol) 333nm
CAS-No.:	303-47-9	
Wight:	1,00mg	
Expiry date:	1 year after delivery	
Storage conditions:	-20 °C	
Certification:	The calibrant is certified on the basis of gravimetric preparation.	
	Values are based on weight amount and purity.	
	Uncertainty < 0,03 mg in accordance with ISO Guide 31, ISO Guide 35 and Eurachem/CITAG Guides.	



Calculation of uncertainty:

(After the concentration of the gravimetric prepared solution was confirmed by kinetic fluorescent polarization, the uncertainty of the calibrant solution was calculated on the basis of preparation)
Calculation of the combined uncertainty u_c and the expanded standard uncertainty U :

Uncertainty components	Description	Standard uncertainty (u)	
Purity (P) of solid Ochratoxin A	$P = 98.19\% \pm 0.6\%$	$u(P) = 0.4\%$	a
Weighing procedure weighted sample: $m_{ws} = 1.00\text{mg}$	repeatability: 0.03 mg linearity: 0.01 mg	$u(m) = 0.03 \text{ mg}$	b

^a Maximum tolerance of purity (rectangular distribution) was divided by $\sqrt{3}$
^b Estimation of this u-value is based upon the values for repeatability and linearity described in the user manual of the microbalance

Calculation of the combined uncertainty u_c and the expanded standard uncertainty U :

$$\frac{u_c(c_{toxin})}{c_{toxin}} = \sqrt{\left[\frac{u(P)}{P}\right]^2 + \left[\frac{u(m)}{m_{ws}}\right]^2} = \sqrt{\left[\frac{0.4}{98.19}\right]^2 + \left[\frac{0.03}{1.00}\right]^2} = 0.0303$$



Danger

Danger

Contains: Ochratoxin A

Volume: 1 mg

Fatal if swallowed

Wash hands thoroughly after handling

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

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H300

P264

P301 + P310