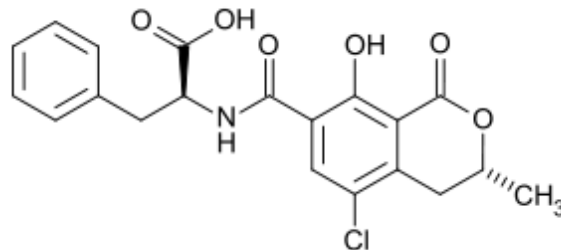


Ochratoxin A Standard (solid)

Order-No: CH-04-S5

Lot: xxx xxx xxx xxx





Analyte: Ochratoxin A (OTA)

Specification:

Substance: Ochratoxin A, Benzene free
 Source: From *Aspergillus ochraceus*
 Empirical Formula: C₂₀H₁₈ClNO₆
 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 H₂SO₄ and heat
 TLC (NP, Toluene, ETOAC, ACOH 6:3:1) >99%
 TLC (RP C18, Methanol, H₂O 9:1) >99%
 HPLC 98.19%
 Lambda max (Methanol) 333nm
 CAS-No.: 303-47-9
 Weight: 5,0 mg
 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 < 0,0072 mg in accordance with ISO Guide 31, ISO Guide 35 and Eurachem/CITAG Guides.



<p>Calculation of uncertainty:</p> <p>(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:</p>	<table border="1"> <thead> <tr> <th>Uncertainty components</th> <th>Description</th> <th>Standard uncertainty (u)</th> <th></th> </tr> </thead> <tbody> <tr> <td>Purity (P) of solid Ochratoxin A</td> <td>$P = 98.19\% \pm 0.6\%$</td> <td>$u(P) = 0.4\%$</td> <td>a</td> </tr> <tr> <td>Weighing procedure weighted sample: $m_{ws} = 5,0$ mg</td> <td>repeatability: 0.03 mg linearity: 0.01 mg</td> <td>$u(m) = 0.03$ mg</td> <td>b</td> </tr> </tbody> </table>	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: $m_{ws} = 5,0$ mg	repeatability: 0.03 mg linearity: 0.01 mg	$u(m) = 0.03$ mg	b
	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: $m_{ws} = 5,0$ mg	repeatability: 0.03 mg linearity: 0.01 mg	$u(m) = 0.03$ mg	b										
<p>Calculation of the combined uncertainty u_c and the expanded standard uncertainty U:</p> $\frac{u_c(c_{toxin})}{c_{toxin}} = \sqrt{\left[\frac{u(P)}{P}\right]^2 + \left[\frac{u(m)}{m_{ws}}\right]^2} = \sqrt{\left[\frac{0.4}{98.19}\right]^2 + \left[\frac{0.03}{5,0}\right]^2} = 0.0072$	<p>^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</p>												

  <p>Danger</p>	<p>H300 P264 P301 + P310</p>	<p>Danger</p> <p>Contains: Ochratoxin A</p> <p>Volume: 5 mg</p> <p>Fatal if swallowed</p> <p>Wash hands thoroughly after handling</p> <p>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician</p> <p>Aokin AG – 13125 Berlin Tel: +49 (0) 3094892160</p>
---	--------------------------------------	---