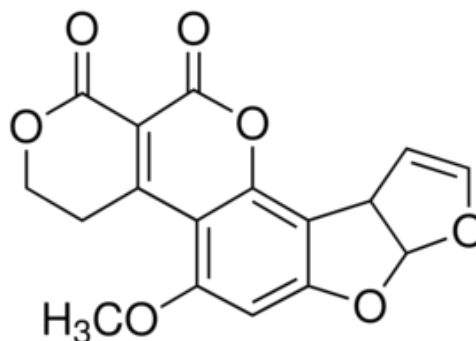


Aflatoxin G1 Standard (solid)

Order-No: CH-03G1-S1


Lot: xxx xxx xxx xxx



Analyte: Aflatoxin G1 (AFLA G1)

Specification:

Substance:	Aflatoxin G1
Source:	<i>Aspergillus flavus</i>
Empirical Formula:	C ₁₇ H ₁₂ O ₇
Appearance:	Slightly yellow powder
Solubility:	Clear colorless solution at 5mg/ml CH ₂ Cl ₂
Molecular Weight:	328,3
Approved:	Detection: spray with H ₂ SO ₄ and heat
	TLC (NP, CH ₂ Cl ₂ : Acetone 97:3) >99%
	TLC (RP C18, Methanol : H ₂ O 9:1) >99%
	HPLC 99,77%
CAS-No.:	1165-39-5
Weight:	1,0 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 < 0,03 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> <p>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 Aflatoxin G1</td> <td>P = 99.77%</td> <td>$u(P) = 0.4\%$</td> <td>a</td> </tr> <tr> <td>Weighing procedure weighted sample: $m_{ws} = 1.0$ 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> <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> $\frac{u_c(c_{toxin})}{c_{toxin}} = \sqrt{\left[\frac{u(P)}{P}\right]^2 + \left[\frac{u(m)}{m_{ws}}\right]^2} = \sqrt{\left[\frac{0.4}{99.77}\right]^2 + \left[\frac{0.03}{1.00}\right]^2} = 0.03$	Uncertainty components	Description	Standard uncertainty (u)		Purity (P) of solid Aflatoxin G1	P = 99.77%	$u(P) = 0.4\%$	a	Weighing procedure weighted sample: $m_{ws} = 1.0$ 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 Aflatoxin G1	P = 99.77%	$u(P) = 0.4\%$	a										
Weighing procedure weighted sample: $m_{ws} = 1.0$ mg	repeatability: 0.03 mg linearity: 0.01 mg	$u(m) = 0.03$ mg	b										
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Danger</p> <p>H300 H310 H330 H350</p> <p>P201 P260 P264 P280 P284</p> <p>P301 + P310</p> </div> </div>	<p>Danger</p> <p>Contains: Aflatoxin G1</p> <p>Volume: 1 mg</p> <p>Fatal if swallowed Fatal in contact with skin Fatal if inhaled May cause cancer</p> <p>Obtain special instructions before use Do not breathe dust/ fume/ gas/ mist/ vapours/ spray Wash hands thoroughly after handling Wear protective gloves/ protective clothing Wear respiratory protection</p> <p>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician</p> <p>Aokin AG – 13125 Berlin Tel: +49 (0) 3094892160</p>												