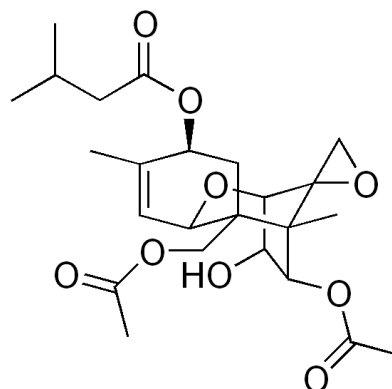


T2-Toxin Standard (solid)

Order-No: CH-07-S5

Lot: xxx xxx xxx xxx




Analyte: T2-Toxin (T2)

Specification:

Substance:	T2-Toxin	
Source:	<i>Fusarium tricinctum</i>	
Empirical Formula:	C ₂₄ H ₃₄ O ₉	
Appearance:	White powder	
Solubility:	Clear colorless solution at 5 mg/ml CH ₂ Cl ₂	
Melting point:	151°C	
Molecular Weight:	466,52	
Approved:	TLC, detection: spray with H ₂ SO ₄ and heat; TLC (NP, toluene, ETOAC, HCOOH 6:3:1) TLC (RP C18, Methanol, H ₂ O 9:1)	>99% >99%
	HPLC; HPLC (RP C18, Isocratic MeOH, H ₂ O 50:50, 205 nm, Flow rate 1,5 ml/min)	100%
CAS-No.:	21259-20-1	
Weight:	5,00 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 < 0,072 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 T2-Toxin</td> <td>P = 99.0%</td> <td>$u(P) = 0.4\%$</td> <td>a</td> </tr> <tr> <td>Weighing procedure weighted sample: $m_{ws} = 5.00$ 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 T2-Toxin	P = 99.0%	$u(P) = 0.4\%$	a	Weighing procedure weighted sample: $m_{ws} = 5.00$ mg	repeatability: 0.03 mg linearity: 0.01 mg	$u(m) = 0.03$ mg	b
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<p>Calculation of the combined uncertainty u_c and the expanded standard uncertainty U:</p> $\frac{u_c(c_{toxin})}{c_{toxin}} = \sqrt{\left[\frac{u(P)}{P}\right]^2 + \left[\frac{u(m)}{m_{ws}}\right]^2} = \sqrt{\left[\frac{0.4}{99}\right]^2 + \left[\frac{0.03}{5.00}\right]^2} = 0.072$	<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 H310 H315 H330</p> <p>P260 P264 P280 P284</p> <p>P302 + P310</p>	<p>Danger</p> <p>Contains: T2-Toxin</p> <p>Volume: 5 mg</p> <p>Fatal if swallowed Fatal in contact with skin Causes skin irritation Fatal if inhaled</p> <p>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 ON SKIN: Gently wash with plenty of soap and water</p> <p>Aokin AG – 13125 Berlin Tel: +49 (0) 3094892160</p>
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