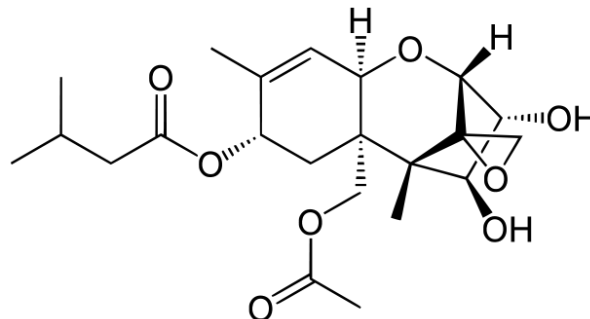
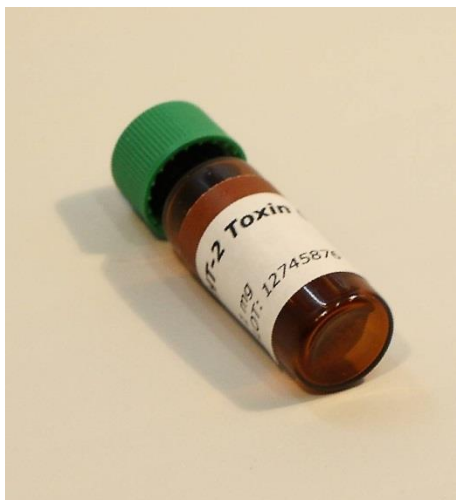


HT2-Toxin Standard (solid)

Order-No: CH-08-S1

Lot: xxx xxx xxx xxx



Analyte: HT2-Toxin (HT2)

Specification:


| | | |
|---------------------|--|-----|
| Substance: | HT2-Toxin | |
| Source: | <i>Fusarium sp.</i> | |
| Empirical Formula: | C ₂₂ H ₃₂ O ₈ | |
| Appearance: | White powder | |
| Solubility: | Clear colorless solution at 5 mg/ml CH ₂ Cl ₂ | |
| Molecular Weight: | 424.48 | |
| Approved: | TLC, detection: spray with H ₂ SO ₄ and heat; | |
| | TLC (CH ₂ Cl ₂ : Methanol 95:5) | 99% |
| | TLC (RP C18, Methanol : H ₂ O 9:1) | 99% |
| | TLC (NP, CH ₂ Cl ₂ , toluene, ETOAC, HCOOH 6:3:1) | 99% |
| CAS-No.: | 26934-87-2 | |
| Weight: | 1 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: (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> | Uncertainty components | Description | Standard uncertainty (u) | |
|---|---|--|--------------------------|---|
| | Purity (P) of solid HT2-Toxin | P = 99.0% | $u(P) = 0.4\%$ | a |
| | Weighing procedure weighted sample: $m_{ws} = 1.0$ mg | repeatability: 0.03 mg linearity: 0.01 mg | $u(m) = 0.03$ mg | b |

^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 :

$$\frac{u_c(c_{toxin})}{c_{toxin}} = \sqrt{\left[\frac{u(P)}{P}\right]^2 + \left[\frac{u(m)}{m_{ws}}\right]^2} = \sqrt{\left[\frac{0.4}{99.0}\right]^2 + \left[\frac{0.03}{1.0}\right]^2} = 0.03$$



Danger

H300-H310-H315-H319-H330-H335

Fatal if swallowed. Fatal in contact with skin. Causes skin irritation. Causes serious eye irritation. Fatal if inhaled. May cause respiratory irritation.

Do not breathe dust/fume/gas/mist/vapours/spray. Wash ... thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.

Danger

Contains: HT2-Toxin

Volume: 1 mg

P260-P264-P280-P284-P302 + P350-P305 + P351 + P338

IF ON SKIN: Gently wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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