



## CERTIFICATE of ANALYSIS

**PRODUCT:** **Wortmannin**  
[KY 12420], from *Penicillium wortmannii*  
C<sub>23</sub>H<sub>24</sub>O<sub>8</sub>, M.W. 428.44, CAS# [19545-26-7]

**PRODUCT NUMBER:** W-1022

**LOT NUMBER:** B1901

**APPEARANCE:** White powder with yellow cast.

**SOLUBILITY:** Clear colorless solution in MeOH (5 mg/ml) or Ethyl Acetate (10 mg/ml).

**PURITY (TLC):** 99% (NP, toluene, ethanol, HCOOH 6:3:1)  
*Detection: Spray with H<sub>2</sub>SO<sub>4</sub> and heat* 99% (NP, CH<sub>2</sub>Cl<sub>2</sub>, EtOAc, methanol 9:1:0.1)  
99% (RP C18, methanol, H<sub>2</sub>O 9:1)

**PURITY (HPLC):** 99.5%

**MELTING POINT:** 240°C

**STORAGE & HANDLING:** Store at -20°C.  
**PROTECT FROM LIGHT & MOISTURE! HYGROSCOPIC!**  
**WARNING: VERY TOXIC!**

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DD