CERTIFICATE OF ANALYSIS

KINETIN HYDROCHLORIDE (K.HCl)

6-furfurylaminopurine hydrochloride

$C_{10}H_9N_5O.HCl$, MW = 251.67

OLCHEMIM CODE: 001 026n
MANUFACTURING DATE: January 2025
CAS: 177966-68-6

OLCHEMIM BATCH: KCl-B
EXSPIRATION DATE: January 2033
BATCH SIZE: 10 g

SYNTHESIS:
Kinetin hydrochloride was prepared by reaction of kinetin free base with methanolic hydrochloric acid and consequent crystallization.

ANALYSIS:

Appearance: white crystalline powder, soluble in alcohols and slightly soluble in water

Melting range: 202.5 – 204.5°C

TLC (chloroform/methanol/NH4OH; 8/2/0.1): a single spot; Rf = 0.43

HPLC: 99+%; Beckman; column: Waters, 2.1 x 150; C18, 5μm; λ = 269 nm; gradient 9-21.35 min.; 0.3 ml/min; mobile phase: 15mM ammonium formate – methanol
Lost on drying: less than 0.1%

STORAGE & STABILITY
Store over silica gel in tightly sealed container at 2 – 8 °C. No detectable decomposition after 12 months storage under these conditions.

FOR LABORATORY USE BY EXPERIENCED PERSONNEL ONLY; NOT FOR DRUG, HOUSEHOLD OR OTHER USES

OlChemIm s.r.o., Šlechtitelů 27, P.O.Box 22, 770 10 Olomouc, Czech Republic
Tel./Fax: +420 585 427 407
email:info@olchemim.cz, OlChemIm on the Internet: http://www.olchemim.cz