CERTIFICATE OF ANALYSIS

N-(2-CHLORO-4-PYRIDIL)-N´-PHENYLUREA (FORCHLORFENURON, FULMET) (CPPU/4PU-30), $C_{12}H_{10}ClN_3O$, MW = 247. 69

OLCHEMIM CODE: 001 019n
OLCHEMIM BATCH: CPPU-C
MANUFACTURING DATE: December 2025
EXPIRATION DATE: December 2033
CAS: 68157-60-8
BATCH SIZE: 100 g

SYNTHESIS
Prepared by reaction of phenyl isocyanate and 2-chloro-4-aminopyridine. Chromatographically purified over silica gel and re-crystallised from acetone and ether. A white, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS
MELTING POINT: Very sharp melt 171.5-173°C (Kofler block)

TLC: (chloroform/MeOH, 9/1), pure product shows single spot only at 20 µg, Rf 0.57, co-chromatographs with authentic. No contaminants detected, including isocyanate and 2-chloro-4-aminopyridine detected.
MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 248.04 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.
HPLC: Samples were dissolved in mobile phase (initial conditions) and separated on RP-column (150 mm □ 2.1 mm, 5µm) (Symmetry C18; Waters). The elution was performed with a methanolic gradient (10 mM HCOOH). The flow rate was 0.2 ml/min. The UV absorbance was scanned between 240 – 300 nm. Rt (CPPU) = 20.7 min, λ_{max} 263.4 nm. Purity > 99.0+%.

STORAGE & STABILITY
Store over silica gel in tightly sealed container at +4°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

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