CERTIFICATE OF ANALYSIS

N^6-BENZYLADENINE HYDROCHLORIDE (BA.HCl)

6-BENZYLAMINOPURINE HYDROCHLORIDE

$C_{12}H_{11}N_5$.HCl, MW = 261. 71

OLCHEMIM CODE: 001 018n
OLCHEMIM BATCH: C-018-B
MANUFACTURING DATE: March 2025
EXPIRATION DATE: March 2034
CAS: 162714-86-5
BATCH SIZE: 13.3 g

ANALYSIS

MELTING POINT: 192.0 – 193.0 °C. Colourless, microcrystalline solid. Dissolves readily in methanol at 10 mg/ml to give a clear, colourless solution. Water-soluble form of N^6-benzyladenine. Minimum water solubility 8 mg/ml at 20°C.

UV

Determined after drying to constant weight over phosphorus pentoxide in vacuum.

pH 7.2 (50 mM PBS, 0.15 NaCl)	λ_{max} 269.3 nm (17,900)
pH 2 (≅0.1 M HCl)	λ_{max} 276.5 nm (17,800)
pH 11 (≅0.1 M NaOH)	λ_{max} 275.8 nm (17,800)
50% EtOH	λ_{max} 269.4 nm (18,200)

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 6-chloropurine. MASS SPETROMETRY: Matches the reference spectrum $[M]^+$= 226.06 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. The flow rate was 0.25 ml/min. The UV absorbance was scanned between 200 – 400 nm. Rt (BA) = 20.1 min, λ_{max} = 269.4 nm. Purity > 99.0%.

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

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