CERTIFICATE OF ANALYSIS

N^6-BENZYLADENINE (6-BENZYLAMINOPURINE, BA)
$C_{12}H_{11}N_5$, MW = 225. 25

OLCHEMIM CODE: 001 022n
MANUFACTURING DATE: April 2025
CAS: 1214-39-7

OLCHEMIM BATCH: BA-C
EXPIRATION DATE: April 2033
BATCH SIZE: 20 kg

SYNTHESIS
Prepared by condensation of 6-chloropurine and benzylamine. Chromatographically purified over silica gel and re-crystallised from water and propanol. A white, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS
MELTING POINT: Very sharp melt 230-233°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 6-chloropurine detected.
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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