CERTIFICATE OF ANALYSIS

N^6-BENZYLADENINE-9-GLUCOSIDE (BA9G)

[6-benzylamino-9-β-D-glucopyranosylpurine]

FW = 387.40

OLCHEMIM CODE: 001 328n
OLCHEMIM BATCH: BA9G-C
MANUFACTURING DATE: March 2025
EXPIRATION DATE: March 2033
CAS: 4294-17-1
BATCH SIZE: 5.1 g

SYNTHESIS

By condensation of 6-chloropurine-9-β-D-glucoside and benzylamine. Re-crystallised from ethanol. A white, microcrystalline solid, soluble in aqueous ethanol.

ANALYSIS
MELTING POINT: 178-181 (Kofler block)
UV: Determined after drying to constant weight over phosphorus pentoxide in vacuo.

EtOH	λ_{max} 267 nm (19,900)
0.1M aq. AcOH	λ_{max} 266 nm (20,400)
0.2M ammonia/EtOH	λ_{max} 267 nm (19,700)

TLC (silica-n-BuOH/14M ammonia/water, 6/1/2, upper phase), Rf 0.26. Purity 98+%.

TLC (silica-chloroform/methanol, 2/1, v/v), Rf 0.50. No impurities detectable at 25 µg loading. Purity 98+%.
TLC (silica-n-BuOH/AcOH/water, 12/3/5, v/v), Rf 0.64. Purity 98+%.
MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 388.18 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.
HPLC: Samples were dissolved in mobile phase (initial conditions) and separated on RP-column (150 mm □ 4.6 mm, 5µm) (Microsorb C18; Varian). The elution was performed with a methanolic gradient. The flow rate was 0.6 ml/min. The UV absorbance was scanned between 240 – 300 nm. Rt (BA9G) = 15.9 min. Purity > 99+%.

STORAGE & STABILITY:
ACID LABILE! HYGROSCOPIC! Store over silica gel in tightly sealed container at –18°C. No detectable decomposition after 6 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