CERTIFICATE OF ANALYSIS

N^6-BENZYLADENINE-3-GLUCOSIDE (BA3G)

[6-benzylamino-3-β-D-glucopyranosylpurine]

FW = 387.40

OLCHEMIM CODE: 001 058n
OLCHEMIM BATCH: BA3G-C
MANUFACTURING DATE: October 2024
EXPIRATION DATE: October 2033
CAS: 56159-41-2
BATCH SIZE: 5.7 g

SYNTHESIS
Condensation of 6-benzyladenine and acetobromoglucose. Chromatographically-purified as the peracetate over silica. Deacetylated in methanolic ammonia and re-crystallised from ethanol. A white, amorphous solid, soluble in aqueous ethanol.

ANALYSIS
MELTING POINT: 243.5-244.5 °C (Kofler block)
UV: Determined after drying to constant weight over phosphorus pentoxide in vacuo.

EtOH	λ_{max} 297 nm,	λ_{max} 251 nm
water, pH 1.6	λ_{max} 289 nm,	λ_{max} 243 nm
0.4M ammonia/EtOH	λ_{max} 297 nm,	λ_{max} 251 nm

TLC (silica-nBuOH/14M ammonia/water, 6/1/2, upper phase), Rf 0.28. No impurities detectable at 25 µg loading, purity 95+%.

TLC (silica-chloroform/methanol, 2/1, v/v), Rf 0.25. No impurities detectable at 25 µg loading, purity 95+%.
TLC (silica-n-BuOH/AcOH/water, 12/3/5). Major component Rf 0.54 (ß-anomer, 95% minimum). Minor component Rf 0.60 (α-anomer, 5% maximum).

STORAGE & STABILITY: ACID LABILE! HYGROSCOPIC!
Store over silica gel in tightly sealed container at –18°C.

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