CERTIFICATE OF ANALYSIS

N^6-BENZYLADENINE-7-GLUCOSIDE (BA7G)

[6-benzylamino-7-β-D-glucopyranosylpurine]

FW = 387.40

OLCHEMIM CODE: 001 057n
OLCHEMIM BATCH: BA7G-C
MANUFACTURING DATE: October 2024
EXPIRATION DATE: October 2033
CAS: 56159-42-3
BATCH SIZE: 250 mg

SYNTHESIS

By condensation of 6-chloropurine-7-ß-D-glucoside peracetate and benzylamine. Re-crystallised from 20% aqueous MeOH. A white, amorphous solid, soluble in aqueous ethanol.

ANALYSIS

UV: Determined after drying to constant weight over phosphorus pentoxide in vacuo.

EtOH	λ_{max} 277 nm
0.1M AcOH	λ_{max} 283 nm (18,290)
1 M NaOH	λ_{max} 277 nm

TLC (silica - nBuOH/AcOH/water, 12/3/5), BA7G (Rf 0.52) at 25 µg loading shows no detectable contaminants, including BA (0.74), BA9G (0.62), or 6-chloropurine-7-glucoside peracetate (0.70). Purity 95+%.

HPLC (25 cm Spherisorb ODS-2, 5µ, 80% iso MeOH/0.2 M AcOH, 1 ml/min) BA7G, RT 7.2 min. No detectable impurities with UV monitor at 270 nm or 280 nm. Purity 95+%.

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

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