CERTIFICATE OF ANALYSIS

N-BENZYL-9-(TETRAHYDROPYRAN-2-YL)ADENINE (BPA)

[6-benzylamino-9-(tetrahydropyranyl)-9H-purine]

FW = 309.37

OLCHEMIM CODE: 001 329
OLCHEMIM BATCH: BPA-C
MANUFACTURING DATE: January 2026
EXPIRATION DATE: January 2035
CAS: 2312-73-4
BATCH SIZE: 967 g

SYNTHESIS

Condensation of 6-benzyladenine and 3,4-dihydropyrane. Recrystallised from 2-propanol. An off-white powder, soluble in ethyl acetate at 10 mg/ml to give a clear, colourless solution.

ANALYSIS

m.p. 121 – 123 ºC with no decomposition.

ELEMENTAL ANALYSIS	Expected	C = 66.0 %	Found	C = 65.4 %
		H = 6.2 %		H = 6.2 %
		N = 22.6 %		N = 22.2 %

TLC (silica-chloroform/methanol, 20/1, v/v), Rf 0.76. No impurities detectable including 6-benzyladenine at 25 µg loading (Rf 0.19), purity 98+%.

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 310.4 amu, ZMD 2000 (Waters) single quadrupole electrospray MS.

HPLC method: Samples were analysed on a reverse phase Waters Symmetry C18 Column (2.1 x 150 mm, 5 µm). The elution was performed by gradient elution with mobile phases consisted of pure water and methanol. The system is equipped with photodiode array detector (PDA) and single quadrupole mass detector (MS). Rt = 12.27 min. Purity (PDA): 99 %+.

^{1}H NMR: identical with standard.

STORAGE & STABILITY

Store over silica gel in tightly sealed container at 2-8ºC. 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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