CERTIFICATE OF ANALYSIS

ADENINE (Ade), ≥ 98%
MW = 135.13

OLCHEMIM CODE: 001 024n
MANUFACTURING DATE: January 2025
CAS:73-24-5

OLCHEMIM BATCH: Ade-C
EXPIRATION DATE: January 2035
BATCH SIZE: 5 kg

APPERANCE
White crystalline powder, free of foreign matters. Loss on drying 0.28% (limit 1% at 105°C). Residue on ignition 0.02% (maximum 0.1%). Heavy metals < 0.001%.

ANALYSIS
MELTING POINT: > 360°C (364.5-366.2 °C)
FTIR, KBr disc, Nicolet 205 instrument, identical with unlabelled sample.

TLC: (silica-chloroform/MeOH/conc. NH_4OH, 8/2/0.1, v/v/v), Rf 0.31. Purity 98+% at 25 µg and 50 µg loading.

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 136.05 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) (Purospher C18; Merck). The analysis was performed by isocratic elution (65% MeOH, 0.2% AcA). The flow rate was 0.5 ml/min, 30°C. The UV absorbance was scanned between 200 – 400 nm. Rt (Ade) = 14.2 min. Purity: 99.5+%.

STORAGE & STABILITY
LIGHT-SENSITIVE! Store dry over silica gel in tightly-sealed container at 2 - 8 °C. No detectable decomposition after 12 months storage under these conditions.

SAFETY
No toxicological data available for this compound. Treat as toxic and potentially mutagenic.

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