CERTIFICATE OF ANALYSIS

ADENINOSINE (Ado), ≥ 99%
MW = 267.25

OLCHEMIM CODE: 001 630n
OLCHEMIM BATCH: 630-B
MANUFACTURING DATE: January 2024
EXPIRATION DATE: January 2034
CAS: 58-61-7
BATCH SIZE: 5 kg

APPERANCE
White crystalline powder, free of foreign matters. Loss on drying 0.25% (limit 1% at 105ºC). Residue on ignition 0.03% (maximum 0.1%). Heavy metals < 0.002%.

ANALYSIS
MELTING POINT: 234-236 ºC
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 0.24. Purity 98+% at 25 µg and 50 µg loading.

MASS SPETROMETRY: Matches the reference spectrum $[M+H]^+$= 268.3 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, 30ºC. The UV absorbance was scanned between 200 – 400 nm. Rt (Ado) = 4.2 min. Purity: 99.5+%.

STORAGE & STABILITY
Store dry over silica gel in tightly-sealed container in at 2 - 8 °C. 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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