



Specification

Adenosine USP

Catalog Number: AD1003
CAS Number: 58-61-7
Synonym(s): 9-β-D-Ribofuranosyladenine, Adenine riboside, Adenine-9-β-D-ribofuranoside
Molecular Formula: C₁₀H₁₃N₅O₄
Molecular Weight: 267.24
Storage: 15°C – 30°C
Retest Period: Five years from the date of manufacture

Test	Specification
Appearance	White to off-white crystalline powder
Assay (HPLC) ¹	99.0 – 101.0%
Identification (HPLC) ²	Retention time of the major peak matches the reference.
Identification (IR) ¹	To match reference spectra
Transmittance	≥ 95.0%
Specific Rotation (c=2, 1.25M NaOH) ¹	-68° to -72°
Melting Point ¹	233.0°C – 238°C
Acidity/Alkalinity ¹	To meet requirements
Moisture (LOD) ¹	≤ 0.5%
Residue on Ignition ¹	≤ 0.1%
Total Impurities ¹	≤ 0.5%
Heavy Metals ¹	≤ 10ppm
¹ Meets USP29 specifications.	

Approved:

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