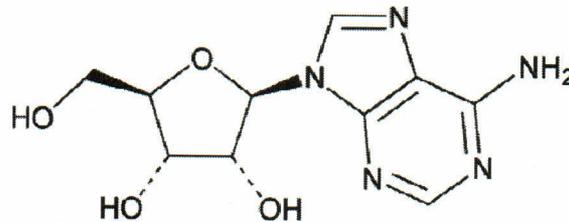




Adenosine USP43

Batch no 20251203
Mf date Dec 03 2025
Retest Dec 03 2027
Batch size 530 kg

Molecular Structure



Molecular Formula $C_{10}H_{13}N_5O_4$
Molecular Weight 267.24
CAS Registry Number 58-61-7

Dec 30 2025

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White or almost white crystalline powder	White powder
Identification	IR	Positive
Loss on drying	≤ 0.5%	0.2%
Specific rotation	-68 ~ -72°	-68.2°
Melting range	233 ~ 238°C	233 ~ 235°C
Residue on ignition	≤ 0.1%	0.05%
Adenine	≤ 0.2%	Conforms
Heavy metals	≤ 10 ppm	Conforms
Chloride	≤ 70 ppm	Conforms
Limit of ammonia	≤ 4 ppm	Conforms
Limit of sulfate	≤ 0.02%	Conforms
Organic impurities	Inosine ≤ 0.1%	Conforms
	Guanosine ≤ 0.1%	Conforms
	Uridine ≤ 0.1%	Conforms
	Adenine ≤ 0.2%	Conforms
	Total impurities ≤ 0.5%	Conforms
Assay (odb) HPLC	98.0 ~ 102.0% of $C_{10}H_{13}N_5O_4$	99.5%

Packaging and storage	Preserve in tight, light-resistant containers, and store at controlled room temperature
Conclusion	Material complies with USP43