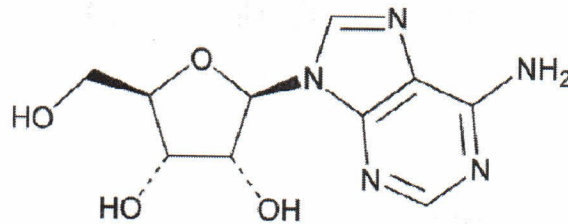


Adenosine USP43

Batch no 20241018
 Mf date Oct 18 2024
 Retest Oct 18 2026
 Batch size 520 kg

Molecular Structure



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

Jan 02 2024

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White or almost white crystalline powder	White powder
Identification	IR	Positive
Loss on drying	$\leq 0.5\%$	0.1%
Specific rotation	$-68 \sim -72^\circ$	-69.0°
Melting range	$233 \sim 238^\circ\text{C}$	$233 \sim 235^\circ\text{C}$
Residue on ignition	$\leq 0.1\%$	0.02%
Adenine	$\leq 0.2\%$	Conforms
Heavy metals	≤ 10 ppm	Conforms
Chloride	≤ 70 ppm	Conforms
Limit of ammonia	≤ 4 ppm	Conforms
Limit of sulfate	$\leq 0.02\%$	Conforms
Organic impurities	Inosine $\leq 0.1\%$	Conforms
	Guanosine $\leq 0.1\%$	Conforms
	Uridine $\leq 0.1\%$	Conforms
	Adenine $\leq 0.2\%$	Conforms
	Total impurities $\leq 0.5\%$	Conforms
Assay (odb) HPLC	$98.0 \sim 102.0\%$ 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