



Spezifikation

Produktbezug:	
Produktnummer	58617WPEG
Handelsname / Bezeichnung	Adenosin, pharma
CAS Nummer	58-61-7
Andere Bezeichnungen / Synonyme	•2-(6-aminopurin-9-yl)-5-(hydroxymethyl)oxolane-3,4-diol; •9-beta-D-Ribofuranosyladenin; •9-beta-D-ribofuranosyladenine; •Adenosin; •adenosine;
EG Nummer	200-389-9 607-743-5
Zolltarifnummer / CN- Code	29349990
Molekulargewicht [g/mol]	267.24132
Formel	C ₁₀ H ₁₃ N ₅ O ₄

Parameter	Methode	Spezifikation	Einheit
Sensorische Prüfung			
Aussehen der Lösung	c = 3.3 %, w/v, in H ₂ O	farblos	
Aussehen		weißes kristallines Pulver, geruchlos	
Physikalische Parameter			
Säuregehalt		blau-violette Farbe (mit nmt 0,3 ml 0,01 M NaOH) gelbe Farbe (mit nmt 0,1 ml 0,01 M HCl)	
Trocknungsverlust		@ 105°C, 2h: ≤ 0,5	%
Spezifische optische Drehung	(acc. to Ph.Eur.): (c = 2,5 %, in 1 M HCl)	45,0 – 49,0	°
Spezifische optische Drehung	(acc. to USP): (c = 2 %, in 5 % NaOH)	68,0 – 72,0	°
Schmelzbereich		233,0 – 238,0	°C
Löslichkeit		praktisch unlöslich in Aceton, Methylenchlorid, Alkohol und Ether, in Wasser bei 20 °C schwer löslich, löslich in kochendem Wasser, gut löslich in verdünnten Säuren	
Identifikation			

Gehalt	HPLC	≥ 99,5	%
Gehalt	aus Titration (HClO ₄)	auf Trockenbasis 99,0 – 101,0	%
Identifizierung	IR Spektrum	entspricht	
Verunreinigungen			
Ammonium		≤ 4	ppm
Glührückstand		≤ 0,1	%
Schwermetalle (als Pb)		≤ 10	ppm
Sulphat (SO ₄)		≤ 200	ppm
Verwandte Substanzen		Adenine ≤ 0,1	% [w/w]
Verwandte Substanzen	TLC	each single ≤ 1,0	% [w/w]
Verwandte Substanzen		Guanosine ≤ 0,1	% [w/w]
Verwandte Substanzen		in sum: ≤ 0,5	% [w/w]
Verwandte Substanzen		Inosine ≤ 0,1	% [w/w]
Verwandte Substanzen	TLC	jede einzelne ≤ 1,0	% [w/w]
Verwandte Substanzen		Unspecified impurities ≤ 0,1	% [w/w]
Verwandte Substanzen		Uridine ≤ 0,1	% [w/w]
Elementare Verunreinigungen			
Chloride (Cl)		≤ 70	ppm
Mikrobiologische Daten			
Escherichia Coli.		neg. in 1 g	CFU/g
Endotoxintest (LAL)		≤ 20,0	EU/100 mg
Pseudomonas aeruginosa		neg. in 1 g	
Salmonellen		neg. in 10 g	
Staphylococcus Aureus		neg. in 1 g	
Gesamtkeimzahl		(TAMC): ≤ 100	CFU/g
Schimmel und Hefe		(TYMC): ≤ 100	CFU/g

Zusätzliche Angaben:

Lagerbedingungen: bei RT stabil, wenn sie fest verschlossen gelagert werden Behälter, vor Licht und Feuchtigkeit geschützt

Entspricht der Monographie: EP, USP,

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 08. Feb. 2022

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