

CERTIFICATE OF ANALYSIS

Product Name:	Adenosine		
Batch No.	20200701	Manufacturing Date	July 2, 2020
Quantity	500KG	Report Date	July 7, 2020
Packing	25kg/drum	Re-test Date	July 1, 2022
Inspection No.	AR2020080		
Analytical Results			
Items	Specifications		Results
Charateristics	White to off-white crystalline powder		Complies
Identification	A. IR		Complies
	B. The sample retention time of the major peak should match the reference standard		
Specific rotation	-68°~-72° (USP)		-69.66°
	-58°~-62° (KFDA)		-61.09°
Loss on drying	≤0.5%		0.32%
Heavy metals	≤10ppm		< 10ppm
Residue on ignition	≤0.1%		0.03%
Acidity or alkalinity	Meet the requirements QS-018-01		Complies
Limit of Ammonia	≤0.0004%		Complies
Limit of Chloride	≤0.007%		Complies
Limit of Sulfate	≤0.02%		Complies
Chromatographic purity	Total impurities ≤0.5%		0.0245%
	Guanosine ≤0.1%		0.0000%
	Inosine ≤0.1%		0.0058%
	Uridine ≤0.1%		0.0000%
	Adenine ≤0.2%		0.0187%
Assay(HPLC)	98.0%~102.0%		100.05%
Solubility	\		Slightly soluble in water
Sifting	\		≥90% pass 40 mesh sieve
Conclusion	The product meets with USP and customer requirement.		

Inspector: Carlifor Wu

Verifier: Jack He

