



CERTIFICATE OF ANALYSIS

PRODUCT NAME:	RIBOFLAVIN 5'-PHOSPHATE SODIUM USP		
BATCH NUMBER.	LIR2506046	CAS NUMBER	130-40-5
QUANTITY MANUFACTURED.	500.100 KG	DRUG LIC.NUMBER.	G/28/1235
DATE OF MANUFACTURING.	JUNE.2025	DATE OF EXPIRY.	MAY.2028
TEST REQUEST NO.	RSP 046	TEST REQUEST DATE.	11.06.2025
SAMPLING.QTY.	0.100 KG.	SAMPLING DATE.	11.06.2025
A.R.NO.	QCR RSP 046	RELEASE DATE.	12.06.2025

Sr.No.	TESTS	RESULTS	SPECIFICATIONS
1	Characters	Fine, orange yellow hygroscopic, crystalline powder. Having a slight odor	Fine, orange yellow hygroscopic, crystalline powder. Having a slight odor
2	Solubility	Confirm	Sparingly soluble in water.
3	Identification : a) Color & Fluorescence of solution b) Sodium & phosphate test	Confirm Confirm	Meets the requirements. The sample solution meets the requirement
4	Specific Optical rotation	+40.34°	Between + 37.0° and + 42.0°
5	pH	5.78	Between 5.00 and 6.50
6	Loss on Drying	4.92%	Not more than 7.5%
7	Heavy Metal	Confirm	NMT 10 ppm
8	Residue on ignition	22.26%	Not more than 25%
9	Free phosphate	0.814%	Not more than 1.0%
10	Free riboflavin	4.16%	Not more than 6.0%
11	Riboflavin diphosphate	4.20%	Not more than 6.0%
12	Limit of lumiflavin	Confirm	The absorbance is NMT 0.025
13	Organic volatile impurities : Chloroform 1,4 Dioxane Methylene chloride Trichloroethylene	Nil Nil Nil Nil	Not more than 60 ppm Not more than 380 ppm Not more than 600 ppm Not more than 80 ppm
14	Assay (Dried basis)	74.36%	Between 73.00% and 79.00%
15	Additional Tests (Residual Solvents)		
	Acetonitrile	Confirm	NMT 410 ppm
	Pyridine	Confirm	NMT 200 ppm
	Methanol	Confirm	NMT 3000 ppm
16	Microbial Limits	Total yeast & mold fungal = 7 cfu/g	Total yeast & mold fungal counts NMT 10 cfu/g
		Substance is free from E.coli	
		Salmonellae, S.Aureus & Pseudomonas	
17	Additional test	Total Bacterial counts = 28 cfu/g	Total Bacterial count 1000 cfu/g

REMARK: ABOVE BATCH COMPLIES WITH THE SPECIFICATIONS OF USP 2024

Analysed By:

Approved By:



GMP Certified API's Manufacturer