



Certificate of Analysis

Product Name and grade	: Riboflavin 5'-Phosphate Sodium USP (Vitamin B2 5 Phosphate Sodium USP)	Mfg. License No.	: KD-156
IUPAC Name	: Riboflavin 5'-(dihydrogen phosphate), monosodium salt, dehydrate.		
Batch No.	: SLL/R/0324023	CAS Number	: [130-40-5]
Batch Qty.	: 190.000 kg	Mfg. Date	: Mar - 2024
Dispatch Qty.	: 190.000 kg	Exp. / Retest Date	: Feb - 2026
A. R. No.	: SLL/QC/FP/24/0900	Date of release	: 29/03/2024

Sr.No.	Test	Specifications	Results
1.	Description	Fine, orange-yellow, crystalline powder, having a slight odor. Is hygroscopic.	Orange yellow crystalline powder, having a slight odor. Is hygroscopic.
2.	Solubility	Sparingly soluble in water.	Conform
3.	Identification:		
3.1	Test-A: Colour and Fluorescence of Solution	The solution should be pale greenish yellow by transmitted light, and exhibits an intense yellowish green fluorescence by reflected light under long-wavelength UV light that disappears upon the addition of mineral acids or alkalis.	Complies
3.2	Test-B: Sodium and Phosphate test	The sample solution meets the requirement.	Complies
4.	Test:		
4.1	Assay on dry basis by UV (% w/w)	Not less than equivalents of 73.0 to Not more than equivalents of 79.0	74.7
4.2	Free Phosphate by UV (% w/v)	Not more than 1.0 The absorbance of the sample solution is NMT that of the standard solution.	0.8
4.3	Free Riboflavin and Riboflavin diphosphate by HPLC (%) on dry basis		
	i.Free riboflavin	Not more than 6.0	2.7
	ii.Riboflavin diphosphates, as riboflavin	Not more than 6.0	3.6
4.4	Limit of Lumiflavin	The absorbance is not more than 0.025	0.008

SOP/SLL/QA/011/F03-05

Page 1 of 2

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GOVT. RECOGNISED EXPORT HOUSE



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Sr.No.	Test	Specifications	Results
4.5	Residue on Ignition (w/w) (%)	Not more than 25.0	22.3
4.6	Specific optical rotation (°)	+37.0 to +42.0	+38.0
4.7	pH (10 mg/ml solution in water)	5.0 to 6.5	5.9
4.8	Loss on drying @ 100°C for 5 hrs. under vacuum over phosphorus pentoxide (%w/w)	Not more than 7.5	5.1
5.	Additional test :		
5.1	Residual Solvents by GC-HS (ppm)		
	i. Methanol	Not more than 3000	26
	ii. Acetonitrile	Not more than 410	Not detected

Remarks: The product complies with respect to above mentioned test as per grade **USP NF 2023**.

Storage Condition: Preserve in tight, light-resistant containers.

 29/03/24 Prepared by QA Officer (M.M.Ambre)	 29/03/24 Checked by QA Executive (S.A.Wakshe)	 29/03/24 Approved by QA Asst.Manager (A.C.Joshi)
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SUPRIYA LIFESCIENCE LTD.

Creating true values that binds global health

Certificate of Analysis

Product Name and grade	: Riboflavin Sodium Phosphate BP/EP	Mfg. License No.	: KD-156
IUPAC Name	: Riboflavin 5'-(sodium hydrogen phosphate) as the main component and other riboflavin sodium monophosphates.		
Batch No.	: SLL/R/0324023	CAS Number	: [130-40-5]
Batch Qty.	: 190.000 kg	Mfg. Date	: Mar. -2024
Dispatch Qty.	: 190.000 kg	Exp. / Retest Date	: Feb. -2026
A. R. No.	: SLL/QC/FP/24/0899	Date of release	: 28/03/2024

Sr.No.	Test	Specifications	Results
1.	Characters:		
1.1	Appearance	Yellow or orange-yellow, crystalline hygroscopic powder.	Orange-yellow, crystalline hygroscopic powder.
1.2	Solubility	Soluble in water, very slightly soluble in ethanol (96 per cent).	Conforms
2.	Identification:		
2.1	Test - A : by UV	Absorption maximum at 266 nm and specific absorbance at the absorption maximum is 580 to 640	602
2.2	Test - B : by HPLC	The Principal peak in the chromatogram obtained with the test solution is similar in position and approximate size to the principal peak in the chromatogram obtained with reference solution (b)	Complies
2.3	Test -C : Color test	The lower layer shows yellow fluorescence.	Complies
2.4	Test- D : Sodium and Phosphate test	It filtrate gives reaction (a) of sodium and reaction (b) of phosphate.	Complies
3.	Test :		
3.1	pH (1.0%, v/v solution in carbon dioxide free water)	5.0 to 6.5	5.9
3.2	Specific optical rotation (°) on dry basis	+38.0 to +43.0	+39.3
3.3	Impurity E	The filtrate is not more intensely coloured than reference solution BY ₆	The filtrate is less intensely coloured than reference solution BY ₆

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Page 1 of 2

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Sr.No.	Test	Specifications	Results
3.4	Related substance by HPLC (%)		
	Free riboflavin (Impurity D)	Maximum 6.0	2.7
	Riboflavin Diphosphate (Sum of Imp. A, B & C)	Maximum 6.0	3.7
3.5	Inorganic Phosphate by UV (free phosphate) (%)	Maximum 1.5	0.8
3.6	Loss on drying @105°C at a pressure not exceeding 0.7 kPa for 5 hrs (%w/w)	Maximum 8.0	6.0
3.7	Assay by UV on dry basis (% w/w)	73.0 to 79.0	75.4
4.	Additional test :		
4.1	Residual solvents by GC-HS (ppm)		
	Methanol	Not more than 3000	26
	Acetonitrile	Not more than 410	Not detected

Remarks: The product complies with respect to above mentioned test as per grade **BP 2023/EP 11.0.**

Storage Condition: In an air tight container, protected from light.

 29/03/24 Prepared by QA Officer (M.M.Ambre)	 29/03/24 Checked by QA Executive (S.A.Wakshe)	 29/03/24 Approved by QA Asst.Manager (A.C.Joshi)
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