

Certificate of Analysis

Product Name	Riboflavin Sodium Phosphate
Catalog No.	V13772
Batch No.	V1377201

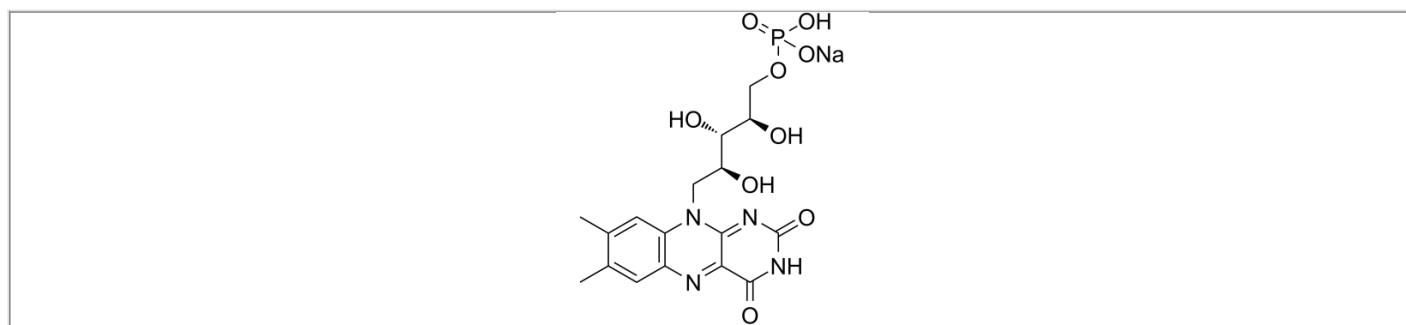
1. Physical and Chemical Properties

Appearance	Yellow to orange yellow crystalline powder
Molecular Formula	C ₁₇ H ₂₀ N ₄ NaO ₉ P
Molecular Weight	478.32
Purity	≥98%
CAS No.	130-40-5
Production Date	
Retest Date	2029-03-15

2. Analytical Data

Test Item	Specification	Result
Identification	Be Positive (USP 191)	Positive
pH	5.0 ~ 6.5 (USP 791)	6.1
Specific rotation	+37.0° ~ +42.0° (USP 781S)	+37.4°
Limit Of Lumiflavin	≤ 0.025 (USP 857)	0.006
Free Riboflavin or Riboflavin di-Phosphate	≤ 6.0% (USP 621)	4.2%
Free Phosphate	Asample solution ≤ Acontrol solution (NMT 1% as PO ₄) (USP 857)	0.98%
Loss on drying	≤ 7.5% (USP 731)	5.2%
Residue on ignitio	≤ 25.0% (USP 281)	23.4%
Assay	73.0% ~ 79.0% (USP 853)	73.3%
Aerobic Plate Count	≤ 1000CFU/g (USP 2021)	< 1000CFU/g
Yeast & moulds	≤ 100 CFU/g (USP 2021)	< 100 CFU/g
E. coli (MPN/g)	Negative (USP 2022)	Conforms

3. Structure



4. Storage Condition

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Storage Condition	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month
Note: (1). This product requires protection from light (avoid light exposure) during transportation and storage. (2). Please store this product in a sealed and protected environment (e.g. under nitrogen), avoid exposure to moisture.			

Products are for research use only • Not for human or veterinary use

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