

# Riboflavin 5'-Phosphate USP

**INCI Name: Sodium Riboflavin Phosphate**

**CAS Numbers: 130-40-5**

## Description:

Flavin mononucleotide (FMN), or riboflavin-5'-phosphate, is a biomolecule produced from riboflavin (vitamin B<sub>2</sub>) by the enzyme riboflavin kinase. It is the principal form in which riboflavin is found in cells and tissues. It requires more energy to produce, but is more soluble than riboflavin.



## Technical Data:

Analytical Procedure	Specification
Identification:	To pass
Specific Rotation:	+37.0° to +42.0°
pH:	5.0 to 6.5
Residue on Ignition:	NMT 25%
Loss on Drying:	NMT 7.5%
Heavy Metals:	NMT 10 ppm
Free Phosphate:	NMT 1.0%
Limit of Lumiflavin:	NMT 0.025 @ 440nm
Free Riboflavin:	NMT 6.0%
Riboflavin Diphosphates:	NMT 6.0%
OVI:	Meets Requirement
Assay ( on dry basis):	between 73.0% and 79.0%

## Applications:

Used to prevent and treat riboflavin deficiency and related conditions. It has been shown to be effective in preventing migraine headaches and in preventing cataracts. Also used as a yellow-red food coloring.



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