

# Chem-Impex International, Inc.

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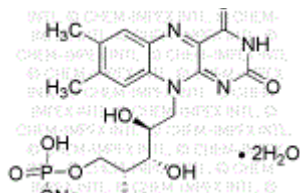
**Fax:** (630) 766-2218

**Web site:** www.chemimpex.com

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191



## Product Specifications

**Catalogue Number** 00259

**Product** **Riboflavin-5'-phosphate sodium salt dihydrate**

FMM-Na·2H<sub>2</sub>O

Flavin mononucleotide sodium salt dihydrate

**CAS Number** 6184-17-4

**Molecular Formula** C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>O<sub>9</sub>PNa·2H<sub>2</sub>O

**Molecular Weight** 514.36

**Appearance** Yellow to orange yellow crystalline powder

**Anion** Free Phosphate (PO<sub>4</sub>) : ≤ 1%

**pH** 5.0 - 6.5

**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = 37 - 42 °

**Loss on Drying** ≤ 7.5%

**Related Substances** Free riboflavin : ≤ 6%  
Riboflavin Diphosphates as Riboflavin : ≤ 6%

**Residue On Ignition** ≤ 25%

**Assay** 73 - 79% (On dried basis)

**Grade** Meets USP specification

**Storage** Store at 0 - 8 °C

**Additional Information** Identification :  
Test A : Color and fluorescence of solution : The solution is pale greenish yellow by transmitted light, and it exhibits an intense yellowish green fluorescence by reflected light under long wavelength UV light that disappears upon the addition of mineral acids or alkalies.  
Test B : Sodium and Phosphate : The sample solution meets the requirements.

Limit of Lumiflavin : Absorbance ≤ 0.025

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**For Laboratory Use Only**