

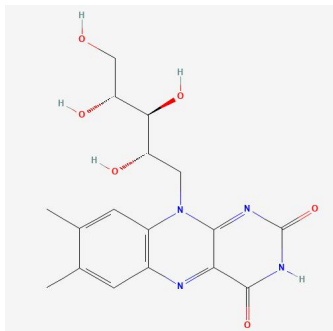


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: Vitamin B2 (Riboflavin)

Chemical Structure:



Molecular Formula: C₁₇H₂₀N₄O₆

Molecular Weight: 376.36

CAS No.: 83-88-5

Specifications

Item	Limit	Analysis method
Appearance	Yellow or orange-yellow crystalline powder	Visual
Identification	Intense yellowish-green fluorescence, disappearing upon addition of mineral acids or alkalis	Fluorescence test
Lumiflavin	Absorbance not more than 0.025 (440 nm)	UV spectrophotometry
Specific rotation [α] _D	-115.0° to -135.0°	USP <781S>
Assay (on dry basis)	98.0% to 102.0%	Fluorometry
Loss on drying	Not more than 1.5%	USP <731>
Residue on ignition	Not more than 0.3%	USP <281>
Lead (Pb)	Not more than 1 ppm	ICP-MS
Heavy metals (as Pb)	Not more than 10 ppm	USP <231>
Bulk density	Not less than 0.30 g/mL	USP <616>
Particle size	100% through 60 mesh	Sieve analysis
Aerobic plate count	Not more than 1000 CFU/g	USP <61>
Yeast & moulds	Not more than 100 CFU/g	USP <61>
E. coli	Negative	USP <62>

Recommended shelf life: 2 years

External packing: Fibre drum, 25 kg net

Inner packing: Double-layer PE bag

Storage: Preserve in tight, light-resistant containers.

Note: Analytical methods refer to the current USP general chapters; the product is manufactured and released against the manufacturer's standard. This document is for reference only; the quality of each batch is subject to the accompanying Certificate of Analysis (COA).

Preparation Date: Sep. 20, 2026 | Version: 1.0 | Prepared by:

Product code: JC-VB2-001 | Product name: Vitamin B2 (Riboflavin)