

## Certificate of Analysis

### Product Information

Product Name	Riboflavin (Vitamin B2)		
Molecular Formula	C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub>	Report Number	VBR20240928
Batch Number	VBR240903	Manufacture Date	2024/09/03
Batch Quantity	600Kg	Expiry Date	2026/09/02

Test Items	Test Standard	Test Result
Appearance	Orange Yellow Crystalline Powder	Conforms
Assay	98.0 ~ 102.0% (USP)	98.71%
	97.0 ~ 103.0%(EP/BP)	98.86%
Identification	Positive	Conforms
Acidity or Alkalinity	Check the color of the test solution after adding the respective solutions.	Conforms
	A <sub>440</sub> ≤ 0.025 (USP)	
Lumiflavin	Not more intense than the principal spot in the chromatogram obtained with Ref sol.(C) 0.025%(BP/EP)	0.002 Meet
Absorbance	0.31~0.33 A373nm/A267nm	0.32
	0.36~0.39 A444nm/A267nm	0.37
Specific Rotation	Between -115° and -135° (EP/BP/USP)	-125° (USP) -127° (BP/EP)
Loss on Drying	≤1.5%	0.27% (EP/BP/USP)
Residue on Ignition	≤0.3% (USP)	0.16%
	≤0.1% (EP、BP)	
Residual Solvents	Method IV(467) (USP)	Conforms
Heavy Metal	≤10 ppm	Conforms

### Conclusion

Conclusion	This products with this batch number meets all requirements of the following valid compendia when tested accordingly:EP5+BP2008+USP42
Shelf Life	2 years when properly stored.
Storage	Store in cool & dry place, not freeze. Keep away from strong light.

Tested by: 张丽娜

Checker: 李田

Approved:

