

R# 15115  
R10133  
10-24-22

**CERTIFICATE OF ANALYSIS**

No.: ZL-QC981-05

Tests		Specifications USP2021	Results	Reference Method
<b>Product: Vitamin B<sub>2</sub> (Riboflavin)</b>				
Batch No.: HS211012		Reference standard: USP2021		
MFG. Date: Oct.08,2021		Batch Size: 500kg		
EXP. Date: Oct.07,2024				
Appearance		A yellow or orange yellow crystalline powder.	Orange yellow crystalline powder.	USP
Identification		A 0.01mg/ml sample solution is pale greenish yellow by transmitted light. By reflected light, it exhibits an intense yellowish-green fluorescence that disappears upon the addition of mineral acids or alkalis.	Conform	USP
Optical Rotation,°		-115 ~ -135	-122	USP
Loss on Drying, %		≤1.5	0.23	USP
Residue on Ignition,%		≤0.3	0.1	USP
Limit of lumiflavin		440nm Absorbance : ≤0.025	0.013	USP
Assay (on dried basis) %		98.0 ~ 102.0	98.6	USP
Customer's additional requirements	Total Heavy Metals	≤ 10ppm	<10ppm	IN HOUSE
	Lead	≤ 1 ppm	Not detected	IN HOUSE
	Arsenic	≤ 1 ppm	Not detected	IN HOUSE
	Cadmium	≤ 1 ppm	Not detected	IN HOUSE
	Mercury	≤ 1 ppm	Not detected	IN HOUSE
	Total plate count	< 1000cfu/g	<10cfu/g	IN HOUSE
	Mold and yeast	< 100 cfu/g	<10cfu/g	IN HOUSE
	E.coli	Negative	Negative	IN HOUSE
	Salmonella (125g)	Negative	Negative	IN HOUSE
	Pseudomonas aeruginosa	Negative	Negative	IN HOUSE
	Staphylococcus aureus	Negative	Negative	IN HOUSE
<b>Conclusion: The above analytical results conform to USP2021.</b>				

QA Manager: 徐卫 2021年12月30日

QC Manager: 理生 2021年12月30日

Analyst: 张明玉 2021年12月1日

