

## Certificate of Analysis

Date of Testing: 2023-07-18 18:19:17  
Date of Next Testing: 2026-07-17 18:19:17  
Product Name: **(-)-Riboflavin**  
CAS Number: 83-88-5  
Specifications & Purity: meets USP testing specifications  
Lot #: G23131341  
SKU #: **R434261**  
**Analysis:** **227928**  
Storage Temperature: Protected from light

| Parameter  | Limit Values          | Result                |
|--|-----------------------|-----------------------|
| Loss on drying   | 0-1.5 (%)             | 0.03%                 |
| Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in } 0.05 \text{ M NaOH})$ | -135~-115 (°)         | -121.11900°           |
| Limit of Lumiflavin absorbance of filtrate at 440 nm                       | 0-0.025               | 0.00200               |
| Residue on ignition(Ash)   | 0-0.3 (%)             | 0.00000%              |
| Assay(dry basis)   | 98.0-102 (%)          | 99.73500%             |
| NMR Spectrum 1H  | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager