**Supplied by LiquidShop**
Item No.: RIBOFLAVIN
Revision: 00 Date: 2026-10-08

# Product Specification Sheet

## 1. Product Description

| | |
|---|---|
| **Product Name:** | Riboflavin (B2) — Bulk Food Grade |
| **Chemical / Common Name:** | Riboflavin |
| **Synonyms:** | Vitamin B2, Lactoflavin, E101 |
| **Ingredient Statement:** | Riboflavin |
| **Molecular Formula / Weight:** | C17H20N4O6 / 376.36 g/mol |
| **CAS No. / HS Code:** | 83-88-5 / — |
| **Grade:** | ☐ Conventional ☐ Organic ☒ Food Grade ☐ USP / FCC |
| **Country of Origin:** | — |
| **Description:** | Yellow orange crystalline powder. |

## 2. Physical & Chemical Characteristics

| Parameter | Specification | Method |
|---|---|---|
| Appearance | Yellow orange crystalline powder | Organoleptic |
| Identification | ≥ 95 % | FT-IR |
| Assay, dry basis (%) | ≥ 98 | USP |

## 3. Contaminants

| Parameter | Specification | Method |
|---|---|---|
| Lead (Pb) (ppm) | ≤ 1 | ICP-MS |
| Arsenic (As) (ppm) | ≤ 1 | ICP-MS |
| Cadmium (Cd) (ppm) | ≤ 1 | ICP-MS |
| Mercury (Hg) (ppm) | ≤ 1 | ICP-MS |

## 4. Microbiological Characteristics

| Parameter | Specification | Method |
|---|---|---|
| Total Plate Count (CFU/g) | ≤ 10,000 | Petrifilm |
| Yeast & Mould (CFU/g) | ≤ 1,000 | Petrifilm |
| Enterobacteriaceae (CFU/g) | ≤ 10 | Petrifilm |
| E. coli / Coliforms (CFU/g) | ≤ 10 | Petrifilm |

## 5. Allergen Declaration

| Priority Allergen (Health Canada) | Present in Product | Same Line / Facility |
|---|---|---|
| Peanuts | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Tree nuts | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Sesame seeds | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Milk | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Eggs | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Fish | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Crustaceans & molluscs | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Soy | ☐ Yes ☐ No | ☐ Yes ☐ No |

| Priority Allergen (Health Canada) | Present in Product | Same Line / Facility |
|---|---|---|
| Wheat & triticale | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Gluten (barley, oats, rye) | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Mustard | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Sulphites (≥ 10 ppm) | ☐ Yes ☐ No | ☐ Yes ☐ No |

## 6. Regulatory Status

| | |
|---|---|
| **GMO Status:** | ☐ Non-GMO ☐ Contains GMO ☐ Not applicable |
| **Irradiation:** | ☐ Not irradiated ☐ Irradiated |
| **Certifications:** | ☐ Kosher ☐ Halal ☐ Organic ☐ Vegan ☐ Other: _____ |
| **BSE / TSE Statement:** | — |
| **Standard of Quality:** | Complies with the manufacturer's specification (USP assay). |

## 7. Packaging, Storage & Shelf Life

| | |
|---|---|
| **Uses:** | Vitamin B2 fortification and yellow colour for foods, beverages and supplements. |
| **Packaging:** | Food-grade sealed pouches, repacked from the manufacturer's original packaging. |
| **Storage Conditions:** | Store in a cool, dry place in tightly closed containers, protected from light. |
| **Shelf Life:** | — |
| **Lot Code Format:** | YYYYMMDDNN (repack date + sequence), traceable to the manufacturer lot. |

## 8. Quality Assurance Review

**Reviewed By (QA):** LiquidShop Quality Assurance **Review Date:** 2026-10-08

**This document was prepared electronically and reviewed by LiquidShop Quality Assurance. It is valid without a signature.**

*The information contained in this document is accurate to the best of our knowledge. It is the responsibility of the user to ensure the product is suitable for its intended application and complies with applicable regulations.*