Riboflavin Fine Powder (FP)

Vitamin B_2 (riboflavin) by *Ashbya gossypii*, pure

Chemical name(s) of active ingredient

Vitamin B_2, riboflavin, lactoflavin

CAS-No.	83-88-5
EINECS-No.	201-507-1

PRD

30519560

Articles

50174226	25 kg fibreboard box
50174430	10 kg fibreboard box
50174589	0.025 kg plastic film bags

Description

Yellow or orange-yellow, fine crystalline powder with a slight odor and a persistent bitter taste.

Benefits

Vegetarian/vegan[1], kosher, halal, allergen-free[2], gluten-free[3], naturally-derived[4]

Composition

Riboflavin (vitamin B_2)

Solubility

Very slightly soluble in water. Practically insoluble in ethanol.

Specification

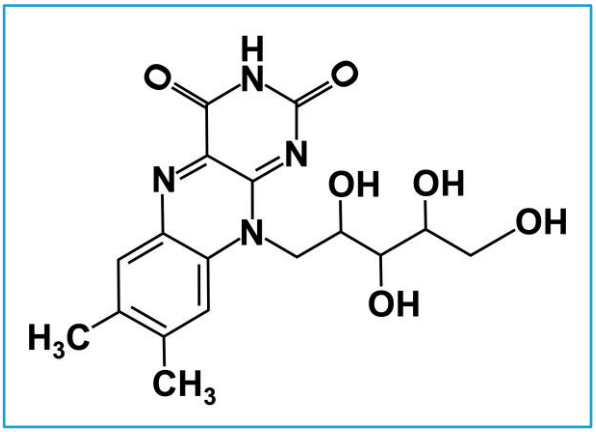
Assay Ph. Eur.	97.0 - 103.0 g/100g
Assay USP	98.0 - 102.0 g/100g
Assay JECFA	98.0 - 101.0 g/100g

For further information see *Product Specification* (not for regulatory purposes) available in BASF's MyBASFWorld:

https://my.basf.com/

Regulations

For quality documentation and compliance please see *Quality & Regulatory Product Information* and *Product Specification*. Riboflavin is approved for use as a food colorant and as vitamin B2 source in most countries. It is the obligation of the user to check the regulations on the ingredients used in the respective countries and for the intended use.



$C_{17}H_{20}N_4O_6$ **376.4 g/mol**

Stability and storage

Riboflavin is sensitive to light, alkaline substances and heavy metal salts and needs to be stored in a light-proof and airtight container. Reducing agents convert it to colorless leuco compounds. Riboflavin is resistant to heat in acid solutions in the absence of light. Stored in its unopened original packaging at temperatures not above 30 °C, in a dry place, the product is stable for at least 48 months.

Handling

It is recommended to use up the remaining contents quickly once the package has been opened. Because the product is hydroscopic, it is recommended to hermetically reseal the remaining product in the packaging.

The dissolution process can be improved by thermal treatment (heating) or mechanical input (e.g., stirring or ultrasonication). Please note that absolute solubility is not part of the product specification and batch-to-batch variability may occur.

Applications

For use in tablets, hard-shell capsules, syrups, gummies, bars and similar applications.

Riboflavin Fine Powder (FP) is used in dry powders (e.g., instant drinks), beverages (e.g., sports drinks), foods (e.g., confectionary, noodles, bakery, dairy products) and in the fortification of staple foods (e.g., flour, sugar). Due to its fine particle size, it is particularly suitable for use as colorant in powder food products or powders, which must be dissolved in water or milk prior to consumption. Riboflavin is light sensitive, therefore light-proof packaging is recommended when used as a colorant.

For use in pharmaceutical applications, where a CEP is accepted.

Suitability of these applications is presented based solely on technical feasibility. Local prevailing legal or regulatory requirements are not considered and should be observed separately. This product is not intended and recommended by BASF for use in food for infants and young children and has not been qualified by BASF for use in those applications with specific requirements. BASF is not testing or manufacturing the product to meet requirements which are applicable for these applications. BASF disclaims any representations, warranties and guarantees of fitness for such particular uses.

Note

The product must be handled in accordance with the *Safety Data Sheet*.

[1] According to International Standard ISO 23662 on definitions and technical criteria for foods and food ingredients suitable for vegetarians or vegans and for labelling and claims.
[2] No labeling requirements with regard to allergens according to EU regulation (EC) No 1169/2011 (as amended) and the US Food Allergen Labeling and Consumer Protection Act (FALCPA).
[3] No ingredients used containing gluten. However, products are not explicitly tested on gluten.
[4] Main / active ingredient originating from natural materials. May contain formulation ingredients not matching “natural” definition.

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