Riboflavin High Flow 100 (HF)

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

30519563

Articles

50175051	10 kg fibreboard box
50175050	25 kg fibreboard box
50175052	0.025 kg plastic film bags

Description

Yellow or orange-yellow, fine-grained, almost free-flowing crystalline powder.

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

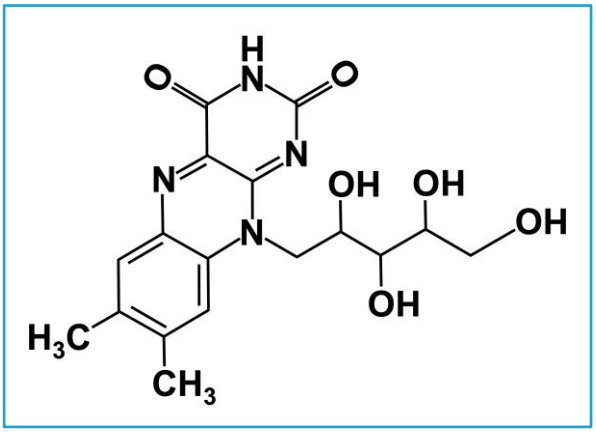
Assay Ph. Eur.	97.0 - 103.0 g/100g
Assay USP	98.0 - 102.0 g/100g
Assay JECFA	98.0 - 101.0 g/100g

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 B_2 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 High Flow 100 (HF) has been developed for the direct compression of high-dosage vitamin B complex tablets. It is ideal for tableting due to its granular particle size.

Riboflavin High Flow (HF) is used in dry powders (e.g., instant drinks), foods (e.g., confectionary, noodles, bakery, dairy products) and beverages (e.g. sports drinks). It can be used as a colorant in liquid form and powder preparations, which must be dissolved in water prior to use.

Riboflavin High Flow (HF) has better flowability than Riboflavin Fine Powder (FP). Therefore, it is easier to handle, produces less dust and lower static charge. Due to riboflavin's light sensitivity, 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.

This document and any information provided herein does not constitute a legally binding obligation of BASF and has been prepared in good faith and is believed to be accurate as of the date of issuance. Unless expressly agreed otherwise in writing in a supply contract or other written agreement between you and BASF:

(a) To the fullest extent not prohibited by the applicable laws, BASF EXPRESSLY DISCLAIMS ALL REPRESENTATIONS, WARRANTIES, CONDITIONS OR GUARANTEES OF ANY KIND,WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, BY FACT OR LAW, INCLUDING ANYIMPLIED WARRANTIES, REPRESENTATIONS OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, SATISFACTORY QUALITY, NON-INFRINGEMENT, AND ANY REPRESENTATIONS, WARRANTIES, CONDITIONS OR GUARANTEES, ARISING FROM STATUTE, COURSE OF DEALING OR USAGE OF TRADE AND BASF HEREBY EXPRESSLY EXCLUDES AND DISCLAIMS ANY LIABILITY RESULTING FROM OR IN CONNECTION WITH THIS DOCUMENT OR ANY INFORMATION PROVIDED HEREIN, including, without limitation, any liability for any direct, consequential, special, or punitive damages relating toor arising therefrom, except in cases of (i) death or personal injury, (ii) BASF´s or its agents and assistants willful misconduct, fraud or fraudulent misrepresentation or (iii) any matter in respect of which it would be unlawful for BASF to exclude or restrict liability under the applicable laws;
(b) Any information provided herein can be changed at BASF´s sole discretion anytime and neither this document nor the information provided herein may be relied upon to satisfy any obligations you may have to undertake your own inspections and evaluation;
(c) BASF rejects any obligation to, and will not, automatically update this document and any information provided herein, unless required by applicable law; and
(d) You are responsible for confirming that you have retrieved the most current version of this document from BASF.
(e) This document or any information provided herein must not be used for purposes of pharmaceutical registrations.