

Riboflavin High Flow 100

Chemical names of active ingredient

Riboflavin, lactoflavin

EU name

Riboflavin E101

CAS-No. 83-88-5

EINECS-No. 201-507-1

PRD-No.

30214976*

* The product is kosher.

Article

57903970 25 kg bag in box

Country of origin

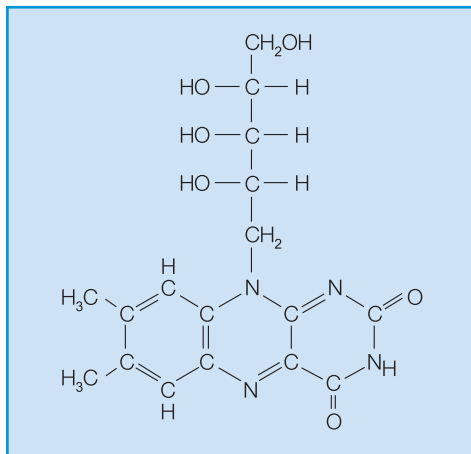
South Korea

Description

Yellow or orange-yellow, free-flowing, fine granular powder with a slight odor and a persistent bitter taste. Riboflavin High Flow 100 is produced in a fermentation process using the microorganism *Ashbya Gossypii*. This unique production process guarantees a product of highest quality and purity.

Solubility

Somewhat soluble in water, virtually insoluble in alcohol.



$C_{17}H_{20}N_4O_6$

Molar mass 376.4 g/mol

Specification

Assay 98 – 102%

For further information see separate document: “Standard Specification” (not for regulatory purposes) available via BASF’s WorldAccount: <https://worldaccount.basf.com> (registered access).

Unless otherwise stated, the methods of analysis can be found in the Ph. Eur.

Monographs

The product complies with the current “Riboflavin” Ph. Eur., the “Riboflavin” USP, the “Riboflavin” FCC, and the “Riboflavin” Ph.JP. monographs, as well as the “E 101” EU directives for food colorants.

Regulations

Riboflavin is approved for use as a food colorant and as vitamin B₂ source in most countries. However, specific regulations in the respective countries and for the intended use have to be observed.

Stability

Stored in its unopened original packaging at room temperature (max. 25 °C), protected from light and moisture, the product is stable for at least 48 months. Since the product is hygroscopic, it is recommended to hermetically reseal the remaining product in the packaging. Riboflavin is resistant to heat in acid solutions in the absence of light. It is sensitive to alkaline substances, heavy metal salts, and light. Reducing agents convert it to colorless leuco compounds.

Storage/Handling

The product should be transported and stored in the tightly sealed original packaging at a temperature below 25 °C, protected from light and moisture.

Applications

Dietary supplements:

The product can be used in all solid and liquid dosage forms such as tablets, hard-shell capsules, effervescent and other instant formulae. Riboflavin High Flow 100 has been developed for the direct compression of high-dosage vitamin B complex tablets. It is ideal for use in multivitamin formulations and equally suitable for low-concentrated solutions and fine powder grade. In addition, it can be used as a colorant in liquid form and powder preparations, which must be dissolved in water prior to use.

Food products:

Riboflavin High Flow 100 is recommended for the fortification of various food and beverage products, such as multivitamin juices, and instant-drink powders. It is also suitable for use as a colorant in liquid food products. Compared to the fine powder grade, it shows better flowability. Therefore, it is much easier to handle, produces less dust and lower static charge.

Pharmaceutical products:

CEP (No.2011-069) is available.

Note

Riboflavin High Flow 100 must be handled in accordance with the Safety Data Sheet.

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