

## Riboflavin PRODUCT DATA SHEET

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Riboflavin
R009
83-88-5
C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub>
376.36
Powder
Yellow to orange crystalline powder
Alcohol: Practically insoluble Water: 70 μg/mL
Limit of Lumiflavin (440nm): ≤0.025
290 °C
-115 to -135°
2-8 °C, protect from light
Riboflavin is a sparingly soluble (0.085 mg/mL) member of the B vitamins (B2) and serves as a derivative of many flavoproteins in both plants and animals.
Riboflavin is a precursor of FAD (flavin adenine dinucleotide); a redox reaction cofactor, and FMN (flavin mononucleotide); an electron carrier involved in photosynthesis.
Riboflavin is used in plant cell culture because of its indirect role in photosynthesis.
Scott, J. M., and Et Al. "Riboflavin, Flavin Mononucleotide, and Flavin Adenine Dinucleotide in Human Plasma and Erythrocytes at Baseline and after Low- dose Riboflavin Supplementation." <i>Clinical Chemistry</i> 48.9 (2002): 1571-577. <i>www.ncbi.gov.</i> Sept. 2002. Web. 4 Sept. 2012.

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