



LKT Laboratories, Inc.

## Folic Acid

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### Product Information

**Product ID** F5745

**CAS No.** 59-30-3

**Chemical Name** N-[4-[[[2-Amino-1,4-dihydrox-4-oxo-6-pteridiny]- methyl]amino] benzoyl]-L-glutamic acid

**Synonym** PGA, Vitamin M, Folacin, Foliamin, Folipac, Folsan, Millafol

**Formula** C<sub>19</sub>H<sub>19</sub>N<sub>7</sub>O<sub>6</sub>

**Formula Wt.** 441.40

**Melting Point** 250° C

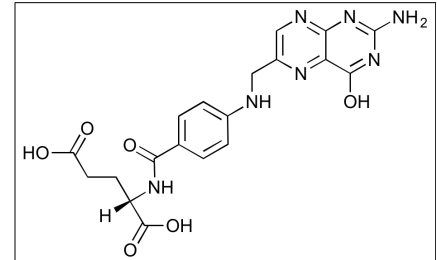
**Purity** ≥96%

**Solubility** Soluble in hot dil HCl or H<sub>2</sub>SO<sub>4</sub>.  
Slightly soluble in methanol,  
acetic acid, phenol, or  
pyridine. Insoluble in acetone,  
chloroform, ether, water, ...

**Store Temp** 4° C

**Ship Temp** Ambient

**Description** Folic acid (vitamin B9) is found in dietary supplements and can be found in food sources such as leafy vegetables; humans are unable to synthesize folic acid and must receive it in their diet. Folic acid is required in the synthesis and repair of DNA, division and growth of cells, and other processes such as spermatogenesis and oocyte maturation. Low folate levels are associated with neurological disorders such as depression and schizophrenia.



**Bulk quantities available upon request**

Product ID	Size
F5745	10 g
F5745	50 g
F5745	100 g

**References** Reynolds EH. The neurology of folic acid deficiency. *Handb Clin Neurol.* 2014;120:927-43. PMID: 24365361.

Czeizel AE, Dudás I, Vereczkey A, et al. Folate deficiency and folic acid supplementation: the prevention of neural-tube defects and congenital heart defects. *Nutrients.* 2013 Nov 21;5(11):4760-75. PMID: 24284617.

Ebisch IM, Thomas CM, Peters WH, et al. The importance of folate, zinc and antioxidants in the pathogenesis and prevention of subfertility. *Hum Reprod Update.* 2007 Mar-Apr;13(2):163-74. PMID: 17099205.

Coppen A, Bolander-Gouaille C. Treatment of depression: time to consider folic acid and vitamin B12. *J Psychopharmacol.* 2005 Jan;19(1):59-65. PMID: 15671130.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.