



## Determination of Folic Acid and its Related Substances of the Ferrous Fumarate and Folic Acid Dispersible Tablet by HPLC

Q. CHEN, Y.L. LIU, Y.H. LUO\*, M. LUO & L.Y. LUO

*College of Pharmaceutical Sciences,  
Southwest University, Chongqing, China*

**SUMMARY.** The aim of the present study was to establish a method for the determination of folic acid and related substances content in dispersible tablets. Method: A Shim-pack VP-ODS C<sub>18</sub> reversed phase column (4.6 mm × 250 mm) was used. The mobile phase consisted of methanol-phosphate buffer (20:80) with a pH of 6.3. The flow rate was 1.0 mL/min, and the detection wavelength was 277nm and the column temperature was 30 °C. Results: The calibration curve was linear in the range of 5-150 µg/mL (r = 0.9998) for folic acid. The minimal detection limit was 99.08 %, n = 9 and the related substances were well separated. This method resulted to be convenient, accurate, selective and reliable, and can be applied for the quality control of folic acid.

**KEY WORDS:** Content determination, Folic acid and related substances, HPLC.

\* Author to whom correspondence should be addressed. *E-mail:* luoyonghuang@126.com