
ARTICLES

Determination of Water- and Fat-Soluble Vitamins in Multivitamin Preparations by High-Performance Liquid Chromatography

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Abstract—An optimized method based on high-performance liquid chromatography with multiwavelength UV detection is proposed. The method provides the determination of vitamins B1 and B2, nicotinic acid, nicotinamide, pantothenic acid, folic acid, vitamins B6, B12, K3, H, D2, and D3, and vitamin A and E acetates in multivitamin preparations using two chromatographic procedures. Relative standard deviations for most of vitamins are 3–10%.