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Determination of Ternary Mixtures of Vitamins (B_1 , B_6 , B_{12}) by Zero-Crossing Derivative Spectrophotometry

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Abstract: A new method for determining ternary mixtures of vitamin B_1 , B_6 and B_{12} using second derivative spectrophotometry is described. The procedure is accurate, nondestructive and does not require any separation step or the solving of equations. Calibration graphs were linear up to $20 \mu \text{g ml}^{-1}$ of vitamin B_1 at 228.9 nm ($r=0.9999$), vitamin B_6 at 309.6 nm ($r=0.9999$) and vitamin B_{12} at 361.7 nm ($r=0.9998$). The method was successfully applied for analyzing synthetic mixtures and commercial pharmaceutical preparations.

Key Words: Derivative spectrophotometry, Vitamins, B_1 , B_6 , B_{12} .

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