

Nº42



FACULTAD DE QUIMICA  
CENTRO NACIONAL DE INFORMACION QUIMICA

**Bibliografía: *Vitaminas B1, B6 y B12: Usos clínicos y análisis químico.***

**29/06/98**

# Vitaminas B1, B6, B12: *Análisis Químico*

## Registro 1 de 2 - Analytical Abstracts

TI: Determination of ternary mixtures of vitamins by ratio-spectra zero-crossing derivative spectrophotometry.

AU: Morelli,-B

AD: Univ. Studi Bari, Dipt. Chim., 70126 Bari, Italy

CP: Italy

SO: Anal-Lett. Nov 1994; 27(14): 2751-2768

IS: 0003-2719

CO: ANALBP

PY: 1994

LA: English

PT: Journal

AB: Details are given of the determination of vitamin B6, vitamin B1 (thiamine) and vitamin B12 (cyanocobalamin) in ternary mixtures by ratio-spectra zero-crossing derivative spectrophotometry. The working way With use of aqueous sam6, 1 and 12. Detection limits were 2, 9 and 4 ng/ml and 2, 4 and 1 ng/ml using the first and third-derivative methods, respectively. The methods were used to analyse injection solutions.

IA: thiamine-A: [59-43-8]. detmn. of, by spectrophotometry;

vitamin-B6-A: [8059-24-3]. detmn. of, by spectrophotometry;

cobalamin,-cyano-A: [68-19-9]. detmn. of, by spectrophotometry

IM: injection-solutions-M: detmn. of cyanocobalamin, thiamine and vitamin B6 in, by spectrophotometry

IC: spectrophotometry,-absorption,-ultra-violet-visible-C: in pharmaceutical analysis

SC: G-Pharmaceutical-Analysis

SS: 12000

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AN: 5703G00133

UD: 5703

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## Registro 2 de 2 - Analytical Abstracts

TI: High-performance liquid-chromatographic determination of multi-vitamin preparations using a chemically-bonded cyclodextrin stationary phase.

AU: El-Gizawy,-SM; Ahmed,-AN; El-Rabbat,-NA

AD: Assiut Univ., Dptp. Pharm. Chem., Coll. Pharmacy, Assiut, Egypt

CP: Egypt

SO: Anal-Lett. Jul 1991; 24(7): 1173-1181

IS: 0003-2719

CO: ANALBP

PY: 1991

LA: English

PT: Journal

AB: Powdered vitamin tablets were dissolved in methanol with sonication for 15 min. The soln. was centrifuged and the supernatant soln. was analysed by HPLC on a column (10 cm x 4.6 mm) of Cyclobond I, at 35degree, with a mobile phase (0.8 ml min<sup>-1</sup>) of phosphate buffer soln. (pH 7) - methanol (4:1) and detection at 254 nm. The calibration graphs were rectilinear for 5 to 10, 5 to 10, 1.5 to 2.0 and 1.0 to 2.0 micro g ml<sup>-1</sup> of vitamin B1, vitamin B6, vitamin B12 and folic acid, respectively. Recoveries were 98.6 to 101%.

IA: pyridoxine-A: [65-23-6]. detmn. of, in multi-vitamin pills, by HPLC;

cyanocobalamin-A: detmn. of, in multi-vitamin pills, by HPLC;

thiamine-A: [59-43-8]. detmn. of, in multi-vitamin pills, by HPLC;

folic-acid-A: [59-30-3]. detmn. of, in multi-vitamin pills, by HPLC

SC: G-Pharmaceutical-Analysis

SS: 11500

COP: Copyright: The Royal Society of Chemistry

AN: 5407G00099

UD: 5407

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# Vitaminas B1, B6, B12: *Usos clínicos*

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