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[\[PDF \(763K\)\]](#) [\[References\]](#)**Simultaneous Determination of Albendazole and Praziquantel by Second Derivative Spectrophotometry and Multivariate Calibration Methods in Veterinary Pharmaceutical Formulation**[César SOTO^{1\)}](#), [David CONTRERAS^{1\)}](#), [Sandra ORELLANA^{2\)}](#), [Jorge YAÑEZ^{1\)}](#)
and [M. Inés TORAL^{2\)}](#)*1) Department of Analytical and Inorganic Chemistry, Faculty of Chemical Sciences, University of Concepción**2) Department of Chemistry, Faculty of Sciences, University of Chile***(Received April 3, 2010)****(Accepted May 29, 2010)**

The simultaneous determination of albendazole (ABZ) and praziquantel (PZQ) was performed by different mathematical approaches: second derivative spectrophotometry (SDS), classical least squares, regression of partial least squares and principal components regression based on spectral data of drugs dissolved in methanol-hydrochloric acid solution. The detection limits for multivariate calibrations were determined by creating a surrogate variable signal. SDS presented the best analytical features. The recoveries of ABZ and PZQ from the synthetic samples were near to $100 \pm 5\%$. The methods were applied in veterinary pharmaceutical formulation whose mass ratio ABZ:PZQ is 10:1; the results obtained were according to nominal content.

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