

[Available Issues](#) | [Japanese](#)>> [Publisher Site](#)Author: [ADVANCED](#) | Volume Page
Keyword: [TOP](#) > [Available Issues](#) > [Table of Contents](#) > Abstract

ONLINE ISSN : 1348-2246

PRINT ISSN : 0910-6340

Analytical Sciences

Vol. 26 (2010) , No. 1 p.121

[\[PDF \(427K\)\]](#) [\[References\]](#)

Quantitative Spot-Test Analysis of Metformin in Pharmaceutical Preparations Using Ultraviolet-Visible Diffuse Reflectance Spectroscopy

[Matthieu TUBINO](#)¹⁾, [Luís Francisco BIANCHESI](#)¹⁾ and [Marta M. D. C. VILA](#)²⁾1) *Institute of Chemistry, University of Campinas*2) *University of Sorocaba*

(Received June 25, 2009)

(Accepted October 31, 2009)

A quantitative spot-test for the determination of metformin in pharmaceutical preparations using diffuse UV-visible reflectance is reported. The procedure is quite simple, involving in the formation of a metformin-nickel(II) complex on a glass filter membrane with a later measurement of the reflectance in the spectrophotometer using an integration sphere. The analytical results obtained with commercial products were statistically compared with those resulting from a method recommended by JP and by USP, where complete agreement was observed. The average RSD is 2.5% and the detection (0.009 mol L^{-1}) and the quantitation (0.03 mol L^{-1}) limits are quite adequate for pharmaceutical analysis.

[\[PDF \(427K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

To cite this article:

Matthieu TUBINO, Luís Francisco BIANCHESSI and Marta M. D. C. VILA, *Anal. Sci.*,
Vol. 26, p.121, (2010) .

doi:10.2116/analsci.26.121

JOI JST.JSTAGE/analsci/26.121

Copyright (c) 2010 by The Japan Society for Analytical Chemistry



[Japan Science and Technology Information Aggregator, Electronic](#)

