



A High Performance Liquid Chromatography Method for Determination of Hydroxyzine Hydrochloride in Syrup

Marcos A.F. BRANDÃO^{1,2} *, Luiz G.B. NASCIMENTO¹, Hudson C. POLONINI¹,
Roberta G. FONSECA², Gabriela MONTESANO¹, Urias P. VAZ¹,
Nádia R.B. RAPOSO¹, Lívia N. GROSSI² & Anderson O. FERREIRA²

¹ NUPICS – Núcleo de Pesquisa e Inovação em Ciências da Saúde,
Faculdade de Farmácia, Universidade Federal de Juiz de Fora,
Rua José Lourenço Kelmer, s/n, 36036-330 Juiz de Fora – MG, Brasil

² Ortofarma Laboratório de Controle de Qualidade, BR 040,
Empresarial Park Sul, 39, 36120-000 Matias Barbosa – MG, Brasil

SUMMARY. A simple isocratic method for quantification of hydroxyzine dihydrochloride by HPLC with UV detection at 232 nm in syrup has been developed and validated. Separation was achieved on a C18 column (250 x 4.6 mm, 5 µm) maintained at 90 °C with 0.5 mol/L potassium dihydrogen phosphate buffer : acetonitrile (1:1, v/v) as mobile phase at a flow rate of 2.0 mL/min. The method was proven to be linear over the range of 80–120 µg/mL, accurate (recovery = 97.8 %), precise (coefficient of variation = 1.52 % for sample) and robust.

KEY WORDS: High Performance Liquid Chromatography, Hydroxyzine, Validation studies.

* Author to whom correspondence should be addressed. *E-mail:* marcosbrand@uol.com.br