

ABSTRACT

**VALIDATION OF SPECTROPHOTOMETRIC METHOD
FOR THE DETERMINATION MIXTURES OF RIFAMPICIN
AND ISONIAZID IN TABLETS**

Farsa Riski Ramadani

Two simple and sensitive methods have been validated for the determination mixtures of rifampicin and isoniazid in tablets. The individual absorbance at 334 nm was applied to determine rifampicin in HCl 0,1 N, while the first derivative spectrophotometry was used for isoniazid at 254 nm. Both methods gave good linearity in the concentration range from 4,91 ppm to 24,55 ppm ($r = 0,9999$ and $V_{xo} = 0,98 \%$) for rifampicin and 4,98 ppm to 39,84 ppm ($r = 0,9999$ and $V_{xo} = 1,15 \%$) for isoniazid. The accuracy showed good recovery ranging 98% to 102%. The precision results were validated, and the RSD for rifampicin and isoniazid (0,64 % and 1,15 %) was less than 2%. This analysis method was validated and can be used for the determination of rifampicin and isoniazid in tablets.

Keywords : isoniazid, rifampicin, validation method, individual absorption, UV spectrophotometry, derivative spectrophotometry.