

## عنوان مقاله:

Spectrophotometric -Reverse Flow Injection Method for the Determination of Tenoxicam in Pharmaceutical Tablets

## محل انتشار:

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## خلاصه مقاله:

In this study, reversed flow injection analysis (rFIA) spectrophotometric method was used for determination of Tenoxicam (TNX) in pure and pharmaceutical forms. This method was based on the charge transfer interaction of TNX with  $0.005$  M of Metol reagent (MFS) in the presence of  $0.02$  M of potassium persulfate as oxidant agent. Color product was formed give absorbance measured at  $\lambda_{max}=530$  nm with ratio  $2:1$ . All optimum physical and chemical conditions were studied. Linearity of TNX was observed at the range of  $2-140$   $\mu\text{g.mL}^{-1}$  and the detection limit was  $1.393$ . However, quantitation limit was  $4.643$   $\mu\text{g.mL}^{-1}$ . The method offered correlation coefficient, ( $r=0.9997$ ) in rFIA applied for TNX pharmaceutical tablets give good values, by the comparison between rFIA results and UV results, using the standard addition method taken  $20$   $\mu\text{g/ml}$  amount for one concentration of Tenoxicam give accurate quantitation of drug, the .rFIA, the best analysis and the suggested method could be utilized for pharmaceutical analysis

## کلمات کلیدی:

Calibration curve, Metol Reagent, Reverse flow injection analysis, Tenoxicam, Charge transfer

## لینک ثابت مقاله در پایگاه سیویلیکا:

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