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Supplementary Information

Application of a New Strategy of Validation Based on "β,γ-Content Tolerance Interval" for Checking the Chiral Chromatography Method for Quantification of the Chiral Impurity of Levofloxacin

Houda Bouchafra,*[a,b] Miloud El karbane,[b,c] Mohamed Azougagh,[d] Fayssal Jhilal,[e] Saad Alawi Sosse,[a] EL Mestafa El hadrami,[a] Taoufiq Saffaj[a] and Bouchaîb Ihssane[a]

[a]*Application Organic Chemistry Laboratory, Sciences and Techniques Faculty, Sidi Mohamed Ben Abedallah University, BP 2202 route d'immouzer, 30000 Fès, Morocco*

[b]*Physicochemical Service, Drugs Control National Laboratory, Direction of Drugs and Pharmacy, Ministry of Health, 10000 Rabat, Morocco*

[c]*Laboratory of Pharmacology and Toxicology, Faculty of Medicine and Pharmacy, Mohammed V University, Soussi, 10000 Rabat, Morocco*

[d]*Superior Institution of Nursing Professions and Health Techniques, Avenue Hassan II Km 4,5 Route de Casa, 10000 Rabat, Morocco*

[e]*Laboratory of Engineering Materials, Modeling and Environment, Faculty of Sciences Dhar El Mahraz, University sidi Mohammed Ben Abdallah, BP 1796 Atlas, 30000 Fès, Morocco*

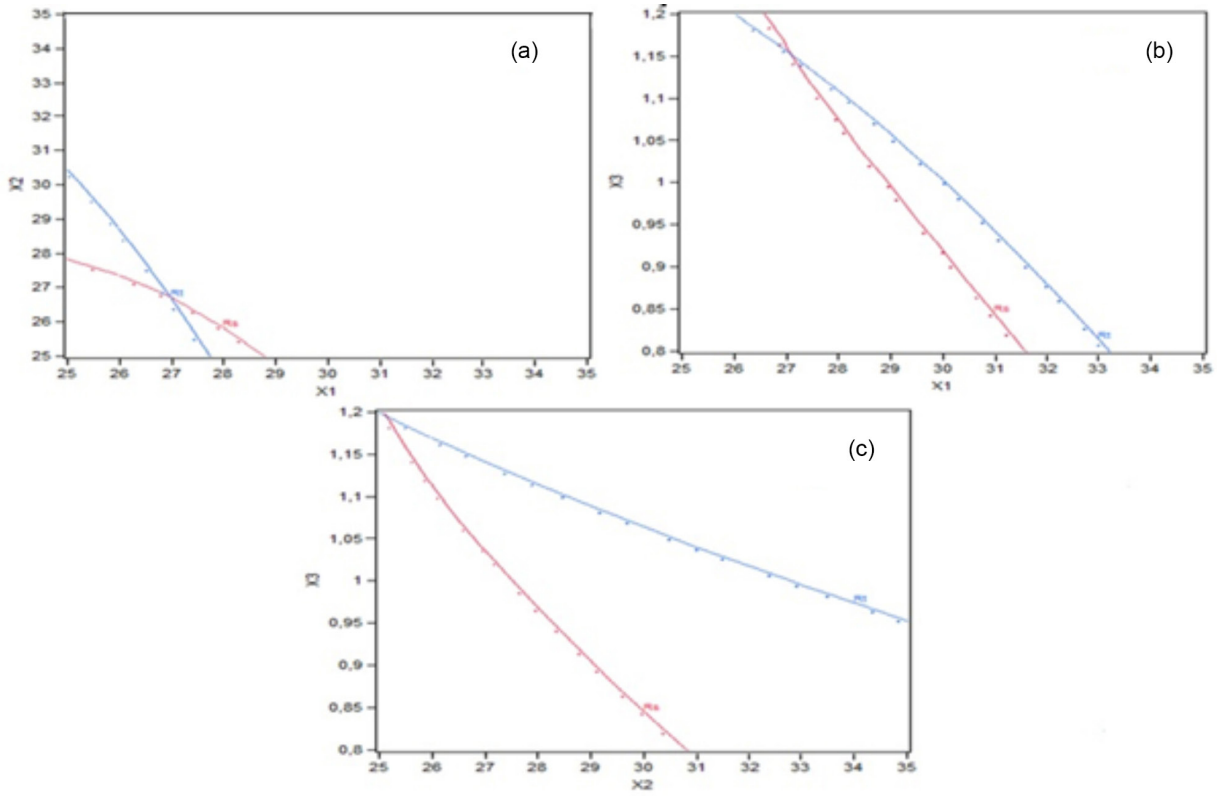

Figure S1. Overlay contour plot of the investigated responses for proportion mixture of methanol plus ethanol (X_1), temperature of the column even (X_2) and flow rate (X_3). Red curve present the resolution Rs and the blue one present the retention time Rt. These plots depict the interaction between Rs and Rt for finding the optimum experimental conditions. (a) Shows the effect of X_1 and X_2 on the responses; (b) shows the effect of X_1 and X_3 on the responses and (c) shows the effect of X_2 and X_3 on the responses.

*e-mail: houdabouchafra@gmail.com

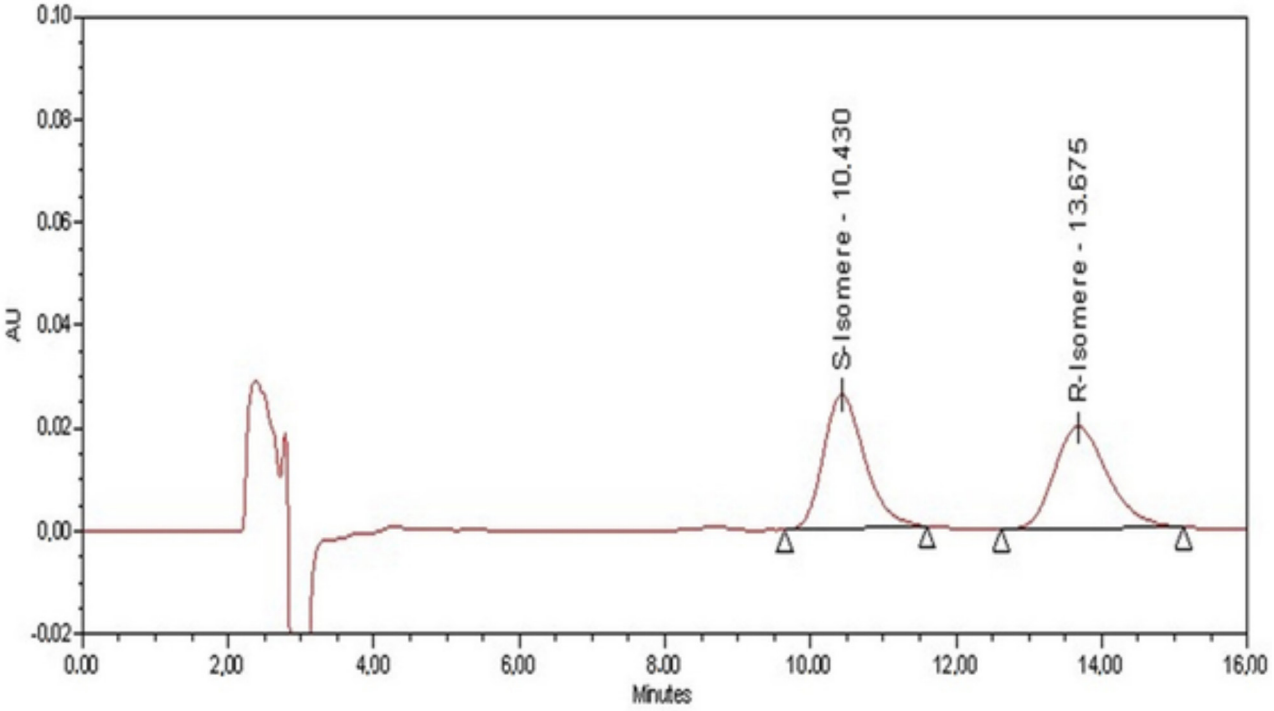

Figure S2. HPL-PDA chromatogram for the separation of the mixture of enantiomers: *S*-isomer (Levofloxacin) (Rt = 10.430) and *R*-isomer (chiral impurity of Levofloxacin) (Rt = 13.675) using the optimum experimental conditions; hexane and mixture of methanol plus ethanol (74:26 v:v) like a mobile phase with 1.2 mL min^{-1} of flow rate and temperature of column oven of 25 °C.