

# Antimicrobial Activity of New Amide/thioamides Derivatives of Ciprofloxacin

ArwaElgedamy<sup>1</sup>, El-Shimaa M N Abdelhafez<sup>1</sup>, Mai E Shoman<sup>1</sup>, Shimaa Salah Abd El Gany<sup>2</sup>  
Gamal El-Din A Abuo-Rahma<sup>1,3</sup>

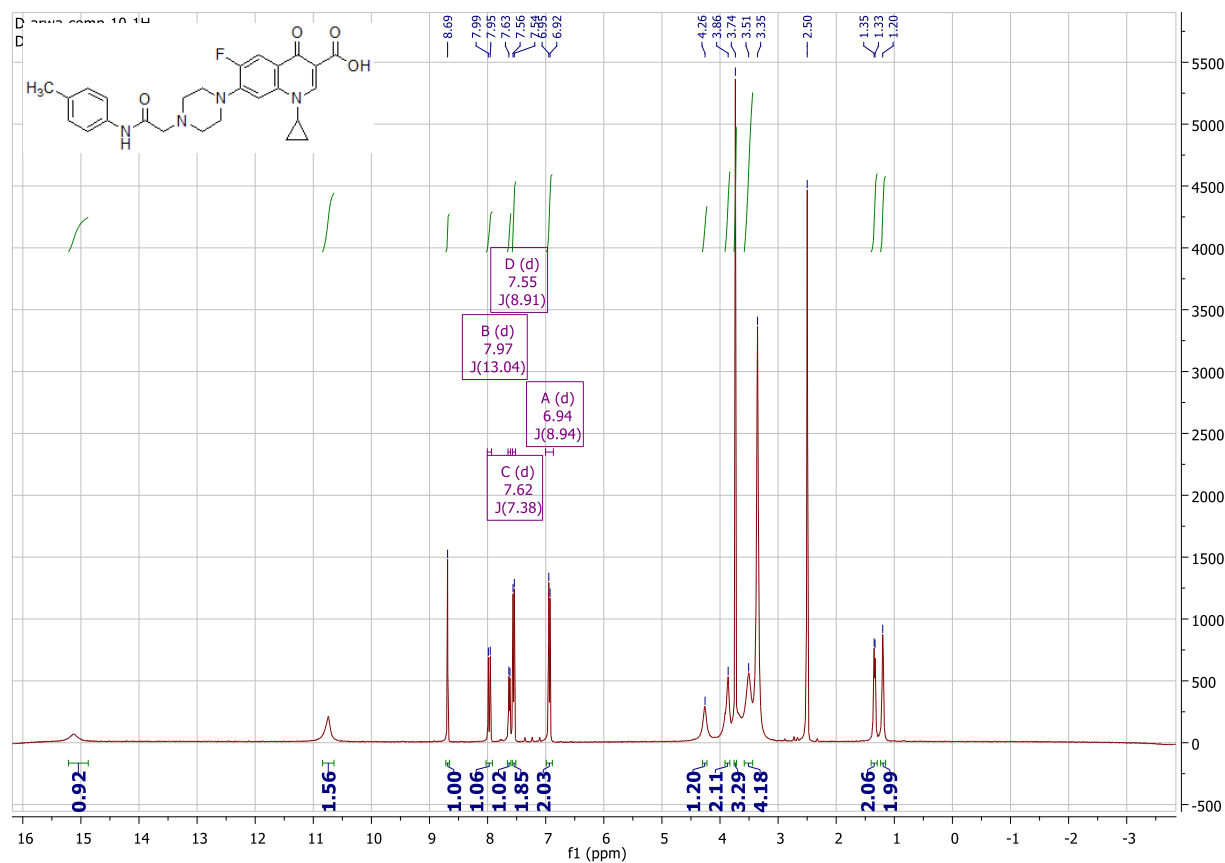
<sup>1</sup>Department of Medicinal Chemistry, Faculty of Pharmacy, Minia University, 61519 Minia, Egypt.

<sup>2</sup>Department of Microbiology and Immunology, Faculty of Pharmacy, Deraya University, 61111 New-Minia, Egypt.

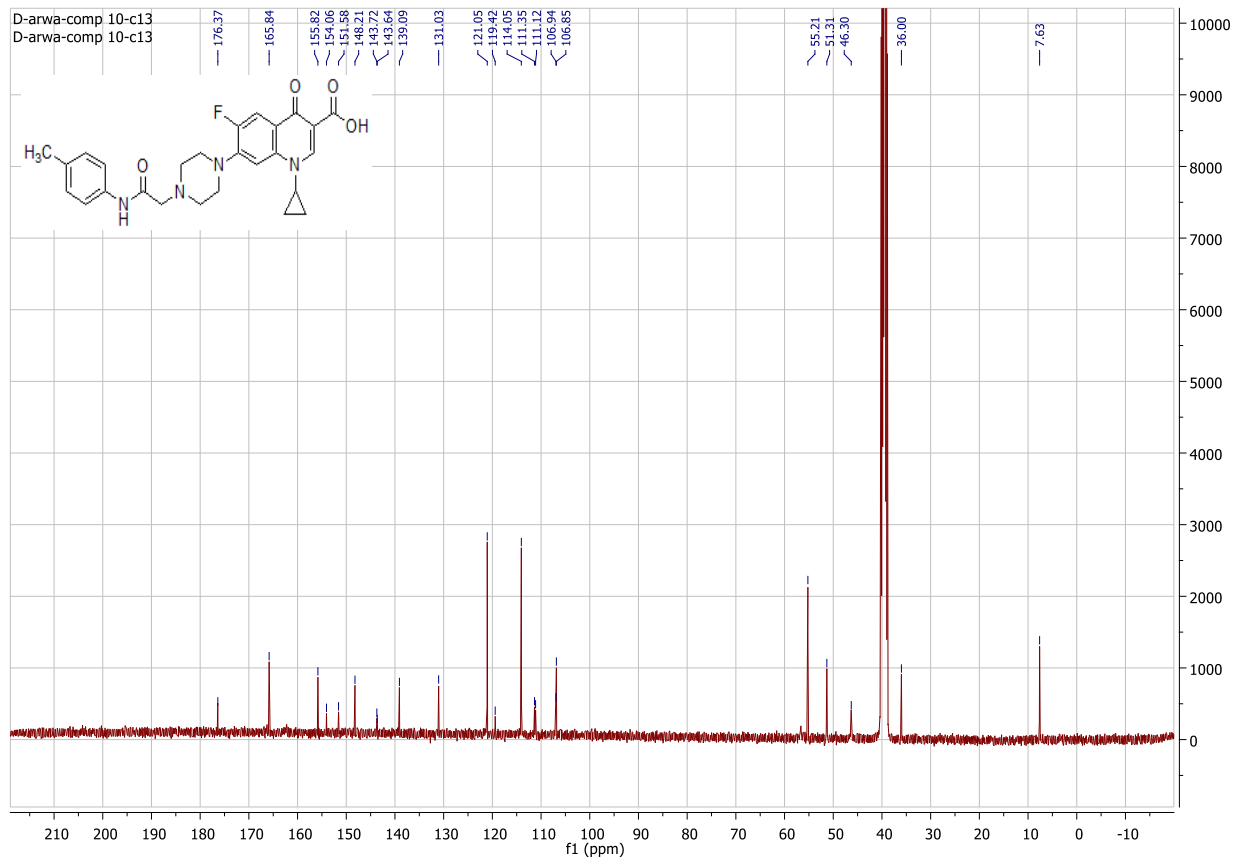
<sup>3</sup>Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Deraya University, 61111 New-Minia, Egypt.

## Compound 2a

### <sup>1</sup>H-NMR

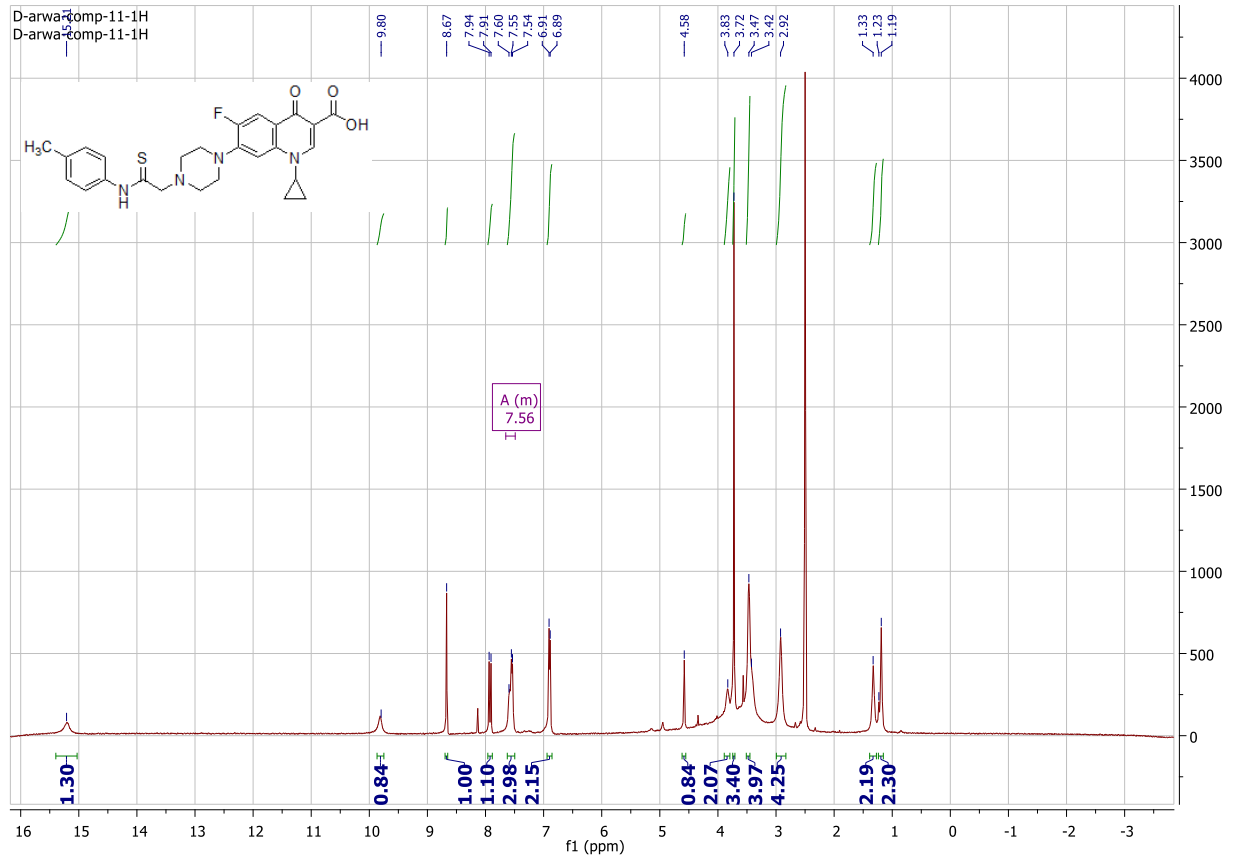


<sup>13</sup>C\_NMR



# Compound 3a

## <sup>1</sup>H-NMR



<sup>13</sup>C\_NMR

