

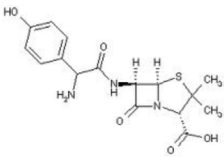
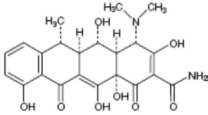
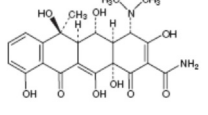
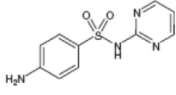
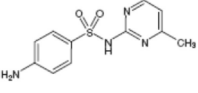
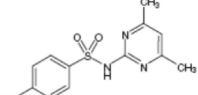
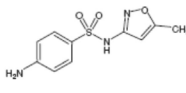
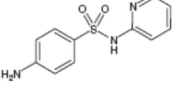
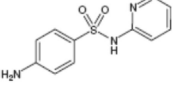
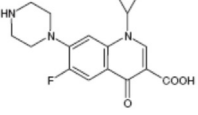
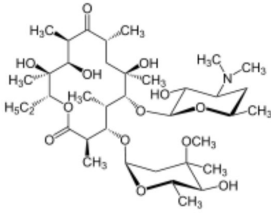
ANÁLISE DE FÁRMACOS EM ÁGUAS POR SPE-UPLC-ESI-MS/MS

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Tabela 1S. Estrutura molecular e principais características dos fármacos pertencentes a várias classes terapêuticas

Fármaco	Classe Terapêutica	Estrutura Molecular	Massa Molecular
Amoxicilina	Antibióticos		365,5
Doxiciclina			444,3
Oxitetraciclina			460,3
Sulfadiazina			250,3
Sulfamerazina			264,3
Sulfametazina			278,3
Sulfametoxazol			253,3
Sulfapiridina			249,3
Sulfatiazol			255,3
Ciprofloxacina			331,3
Eritromicina			733,9

*e-mail: vitorcar@epal.pt

Tabela 1S. continuação

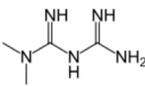
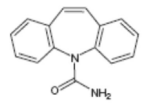
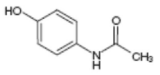
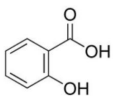
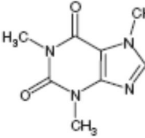
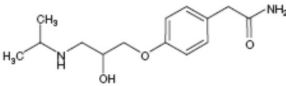
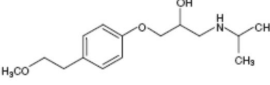
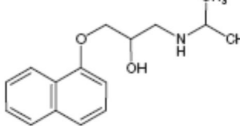
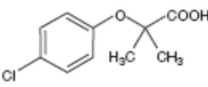
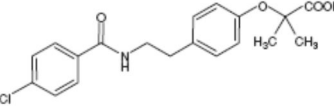
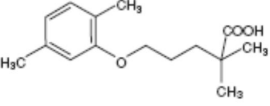
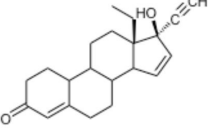
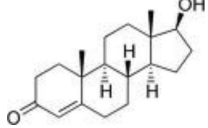
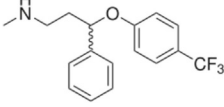
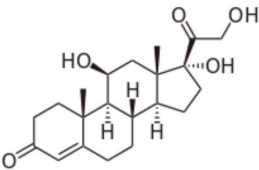
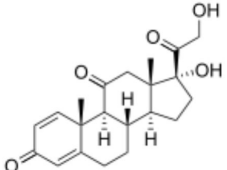
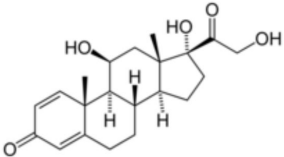
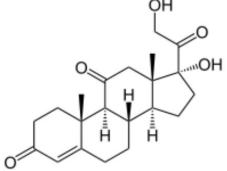
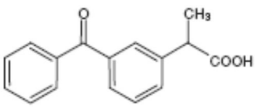
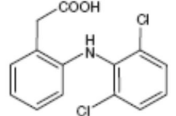
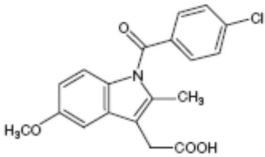
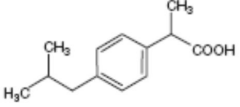
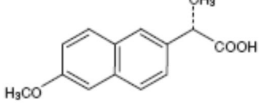
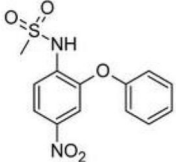
Fármaco	Classe Terapêutica	Estrutura Molecular	Massa Molecular
Metformina	Anti-diabético		129,2
Carbamazepina	Antiepiléptico/Anticonvulsivante		236,3
Acetaminofeno	Analgésico/Antipirético		151,2
Ácido salicílico			138,1
Cafeína	Estimulantes do sistema nervoso central		194,2
Atenolol	Antihipertensor (bloqueador beta)		266,3
Metoprolol			267,2
Propranolol			295,8
Ácido Clofíbrico	Antidislipidémico		214,7
Bezafibrato			361,8
Gemfibrozil			250,3
Gestodeno	Hormónio sexual (progestagénio)		309,7
Testosterona			288,4
Fluoxetina	Anti-depressivo		309,3

Tabela 1S. continuação

Fármaco	Classe Terapêutica	Estrutura Molecular	Massa Molecular
Hidrocortisona	Corticóides		362,5
Prednisona			358,4
Prednisolona			360,44
Cortisona			360,44
Cetoprofeno	AINE		254,3
Diclofenac			296,2
Indometacina			357,8
Ibuprofeno			206,3
Naproxeno			230,3
Nimesulida			308,3

AINE – Anti-inflamatório Não Esteróide.

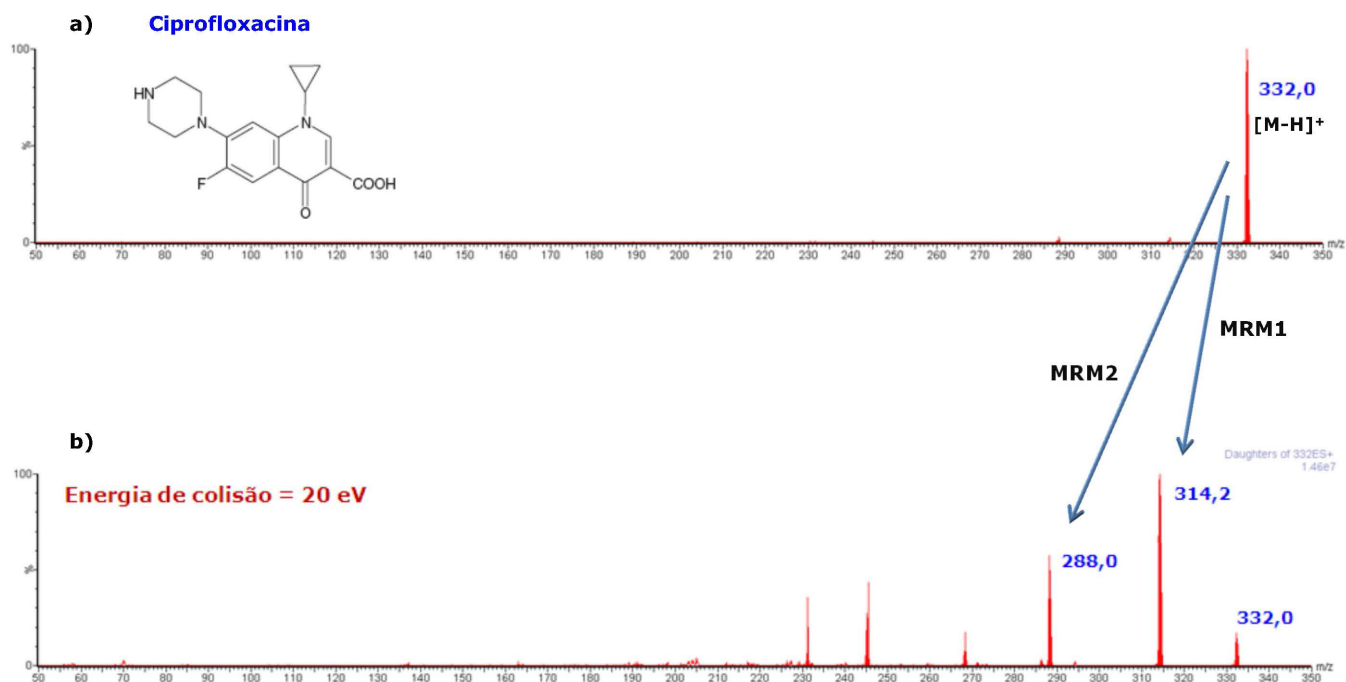


Figura 1S. a) Espectro de massa do íon precursor da ciprofloxacina no modo de ionização positivo a uma voltagem de cone de 40 V, b) Espectro de massa do íon precursor obtido no modo de operação Product Ion Scan a uma energia de colisão de 20 eV

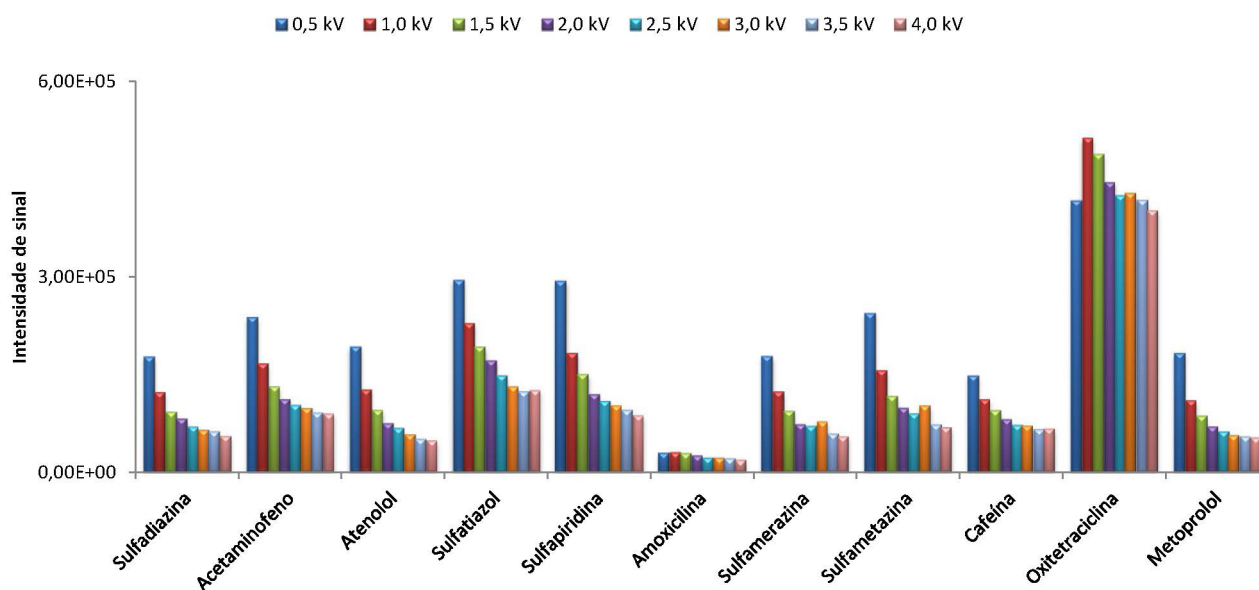


Figura 2S. Efeito da variação da voltagem do capilar (0,5 – 4,0 kV) na intensidade de sinal de alguns fármacos

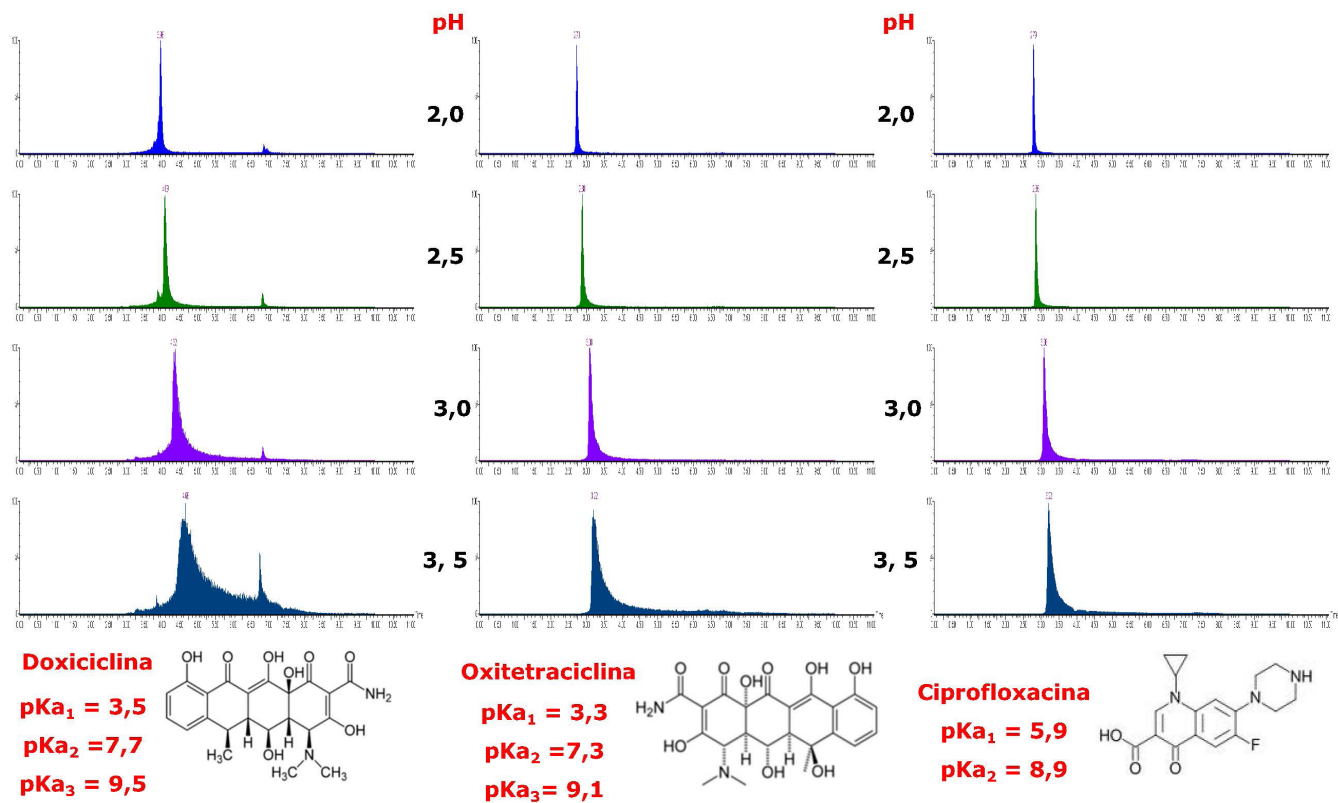


Figura 3S. Influência do pH da fase móvel no comportamento cromatográfico de três fármacos (doxiciclina, oxitetraciclina e ciprofloxacina)