The supplementary information for manuscript '**The determination of LogP of anticoagulant drugs with high performance thin-layer chromatography**'

1. The results of HPTLC measurements

Table S1. The R_f values for compounds with a known lipophilicity.

Acetonitrile content [%]	R_f ± SD					
	Isatin	2,6-dichloroaniline	p-nitrophenol	3,4-dichloroaniline	N-(2,4-dichlorophenyl) acetamide	2,3,9,10-tetramethoxy-12-oxo-12H-indolo[2,1-a] isoquinoline chloride
50	0.6141 ± 0.0049	0.1588 ± 0.0080	0.5058 ± 0.0012	0.2371 ± 0.0095	0.2685 ± 0.0173	0.0397 ± 0.0018
55	0.6833 ± 0.0043	0.2202 ± 0.0018	0.5903 ± 0.0192	0.2819 ± 0.0030	0.3163 ± 0.0057	0.0447 ± 0.0031
60	0.7320 ± 0.0114	0.2722 ± 0.0072	0.6748 ± 0.0165	0.3522 ± 0.0056	0.4059 ± 0.0133	0.0585 ± 0.0051
65	0.7713 ± 0.0112	0.3326 ± 0.0155	0.7378 ± 0.0222	0.4449 ± 0.0105	0.4638 ± 0.0041	0.0723 ± 0.0033
70	0.8136 ± 0.0134	0.4138 ± 0.0165	0.7892 ± 0.0125	0.5005 ± 0.0145	0.5085 ± 0.0136	0.0872 ± 0.0074
75	0.8528 ± 0.0038	0.4765 ± 0.0187	0.8338 ± 0.0092	0.5685 ± 0.0116	0.5679 ± 0.0075	0.1131 ± 0.0031
80	0.8814 ± 0.0042	0.5634 ± 0.0009	0.8642 ± 0.0063	0.6507 ± 0.0041	0.6331 ± 0.0116	0.1339 ± 0.0093

Table S2. The R_f values for the analysed compounds.

Acetonitrile content [%]	R_f ± SD			
	Warfarin	Acenocoumarol	Clopidogrel	Prasugrel
50	0.1818 ± 0.0023	0.2423 ± 0.0039	0.0904 ± 0.0009	0.2036 ± 0.0032
55	0.2699 ± 0.0065	0.2797 ± 0.0077	0.1037 ± 0.0021	0.2330 ± 0.0027
60	0.3590 ± 0.0046	0.3945 ± 0.0204	0.1447 ± 0.0077	0.2618 ± 0.0015
65	0.4169 ± 0.0040	0.4978 ± 0.0159	0.1908 ± 0.0013	0.3002 ± 0.0009
70	0.5469 ± 0.0105	0.5912 ± 0.0265	0.2184 ± 0.0027	0.3358 ± 0.0023
75	0.5999 ± 0.0021	0.6610 ± 0.0108	0.2575 ± 0.0058	0.3763 ± 0.0030
80	0.6966 ± 0.0044	0.7522 ± 0.0078	0.3189 ± 0.0044	0.4253 ± 0.0042

2. The R_m=f(acetonitrile content) graphs for the analyzed compounds for determination of R_{m0}

a. Isatin

Table S3. The results of R_f and R_m for isatin.

Acetonitrile content [%]	Mean R_f	R_m
50	0.6141	-0.2018
55	0.6833	-0.3339
60	0.7320	-0.4363
65	0.7713	-0.528
70	0.8136	-0.6399
75	0.8528	-0.7628
80	0.8814	-0.8711

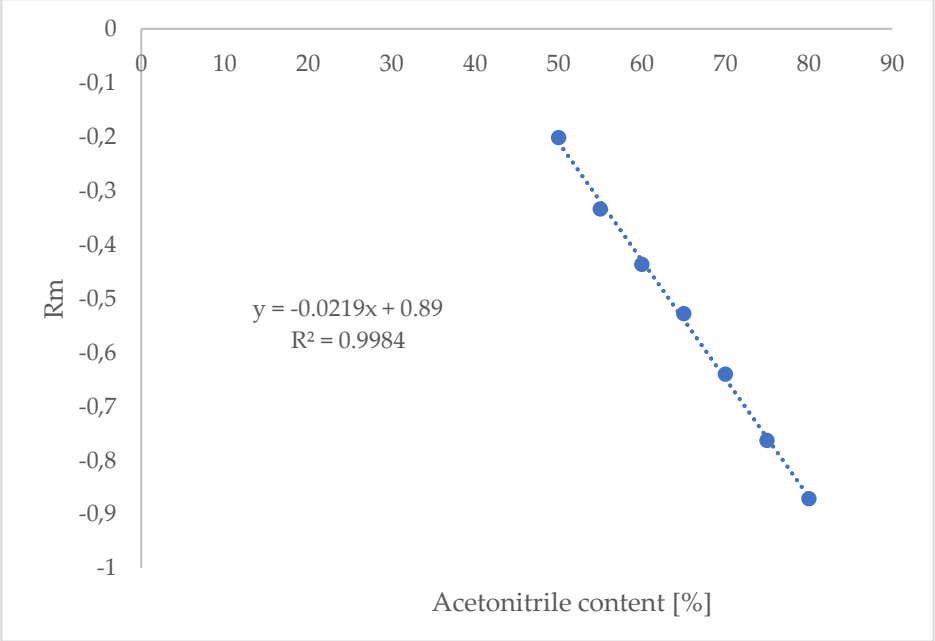


Figure S1. The R_m=f(acetonitrile content) graph for isatin.

b. 2,6-dichloroaniline

Table S4. The results of R_f and R_m for 2,6-dichoroaniline.

Acetonitrile content [%]	Mean R_f	R_m
50	0.1588	0.7241
55	0.2202	0.5493
60	0.2722	0.4271
65	0.3326	0.3025
70	0.4138	0.1513
75	0.4765	0.0408
80	0.5634	-0.1107

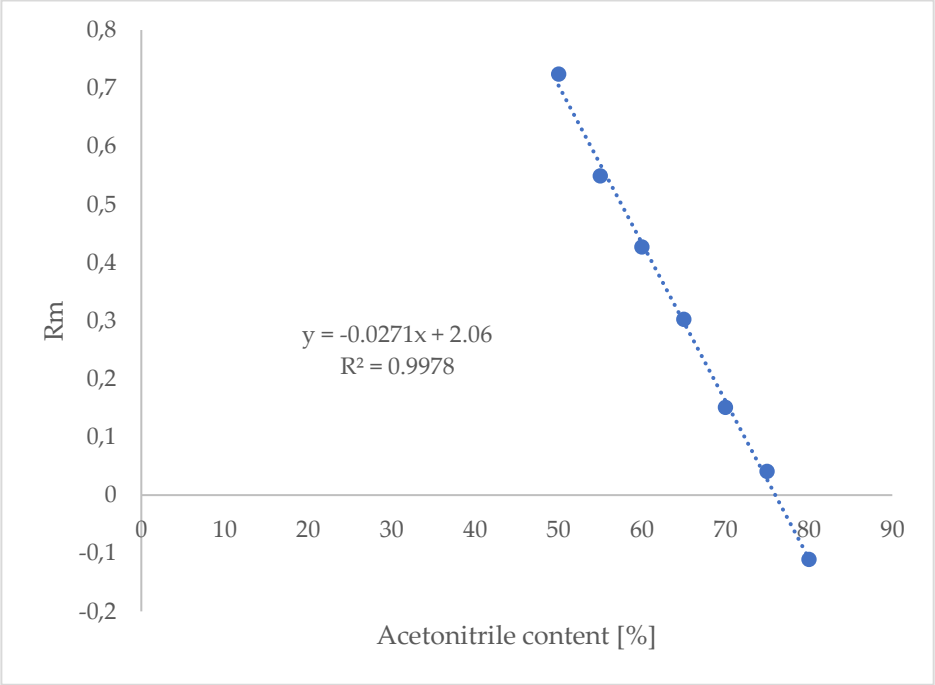


Figure S2. The R_m=f(acetonitrile content) graph for 2,6-dichloroaniline.

c. p-nitrophenol

Table S5. The results of R_f and R_m for p-nitrophenol.

Acetonitrile content [%]	Mean R_f	R_m
50	0.5058	-0.0101
55	0.5903	-0.1585
60	0.6748	-0.3170
65	0.7378	-0.4494
70	0.7892	-0.5734
75	0.8338	-0.7003
80	0.8642	-0.8036

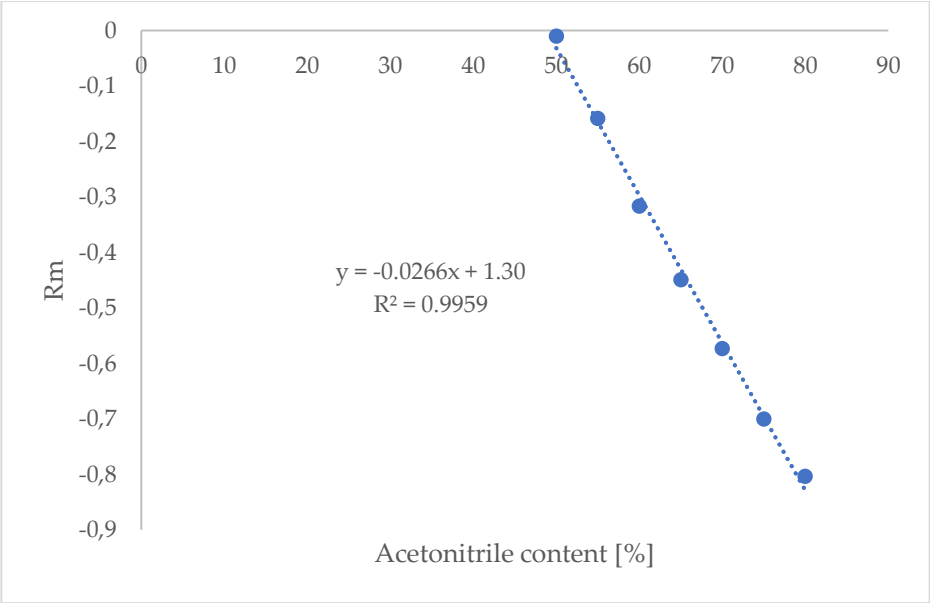


Figure S3. The R_m=f(acetonitrile content) graph for p-nitrophenol.

d. 3,4-dichloroaniline

Table S6. The results of R_f and R_m for 3,4-dichloroaniline.

Acetonitrile content [%]	Mean R_f	R_m
50	0.2371	0.5075
55	0.2819	0.4060
60	0.3522	0.2647
65	0.4449	0.0961
70	0.5005	-0.0009
75	0.5685	-0.1197
80	0.6507	-0.2702

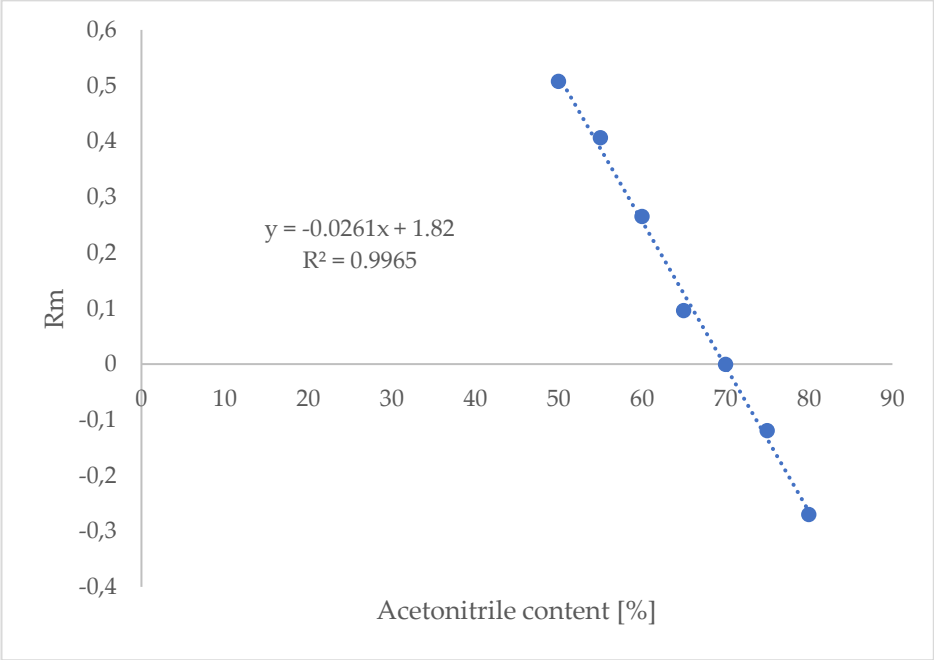


Figure S4. The R_m=f(acetonitrile content) graph for 3,4-dichloroaniline.

e. N-(2,4-dichlorophenyl)acetamide

Table S7. The results of R_f and R_m for N-(2,4-dichlorophenyl)acetamide.

Acetonitrile content [%]	Mean R_f	R_m
50	0.2685	0.4353
55	0.3163	0.3347
60	0.4059	0.1654
65	0.4638	0.0631
70	0.5085	-0.0148
75	0.5679	-0.1187
80	0.6331	-0.2369

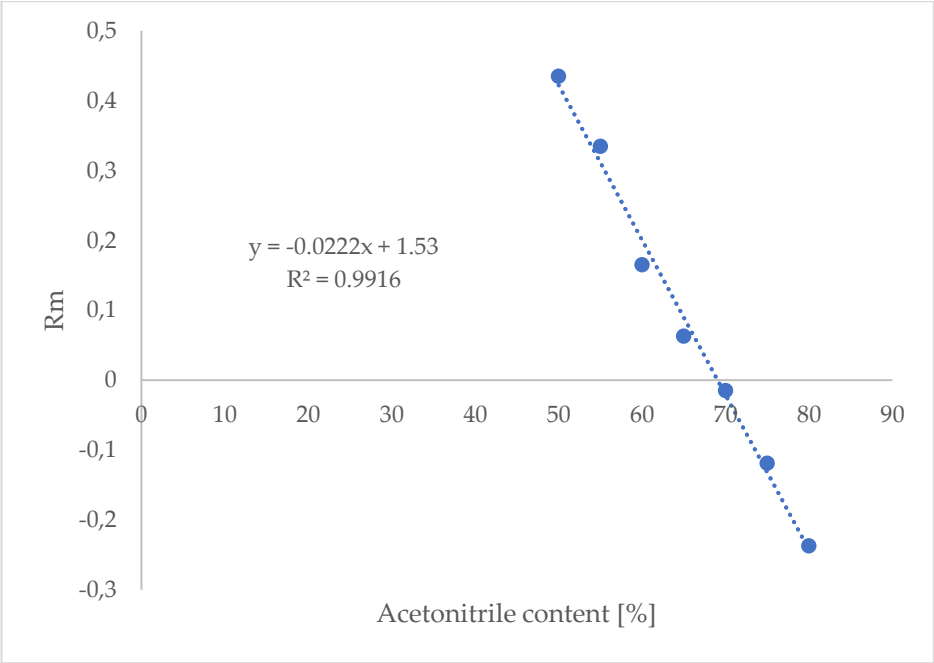


Figure S5. The R_m=f(acetonitrile content) graph for N-(2,4-dichlorophenyl)acetamide.

f. 2,3,9,10-tetramethoxy-12-oxo-12H-indolo[2,1-a] isoquinoline chloride

Table S8. The results of R_f and R_m for 2,3,9,10-tetramethoxy-12-oxo-12H-indolo[2,1-a] isoquinoline chloride.

Acetonitrile content [%]	Mean R_f	R_m
50	0.0397	1.3836
55	0.0447	1.3302
60	0.0585	1.2064
65	0.0723	1.1084
70	0.0872	1.0197
75	0.1131	0.8944
80	0.1339	0.8107

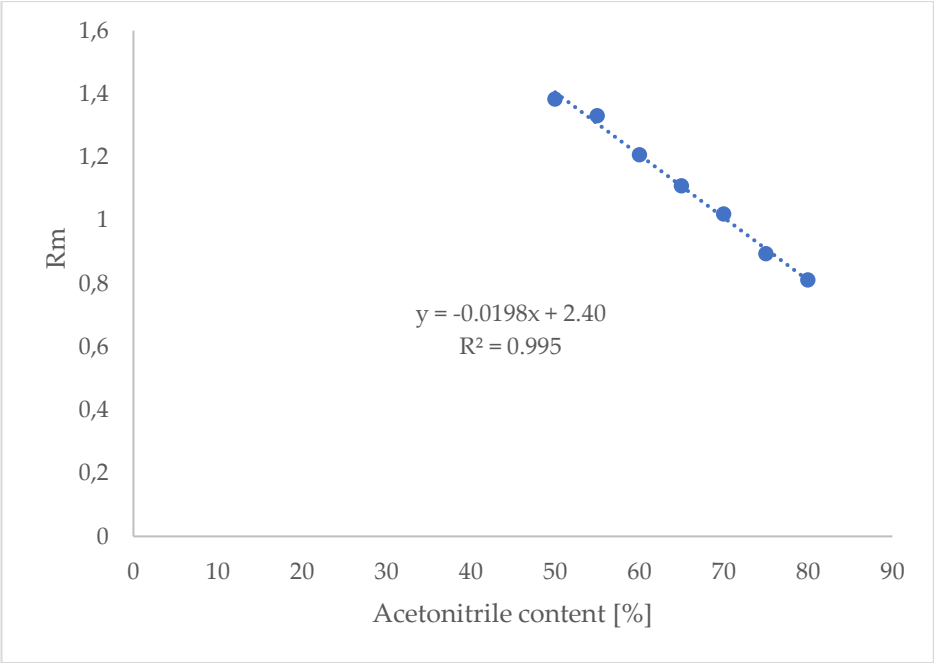


Figure S6. The R_m=f(acetonitrile content) graph for 2,3,9,10-tetramethoxy-12-oxo-12H-indolo[2,1-a] isoquinoline chloride.

g. Warfarin

Table S9. The results of R_f and R_m for warfarin.

Acetonitrile content [%]	Mean R_f	R_m
50	0.1818	0.6532
55	0.2699	0.4321
60	0.3590	0.2518
65	0.4169	0.1456
70	0.5469	-0.0817
75	0.5999	-0.1760
80	0.6966	-0.3610

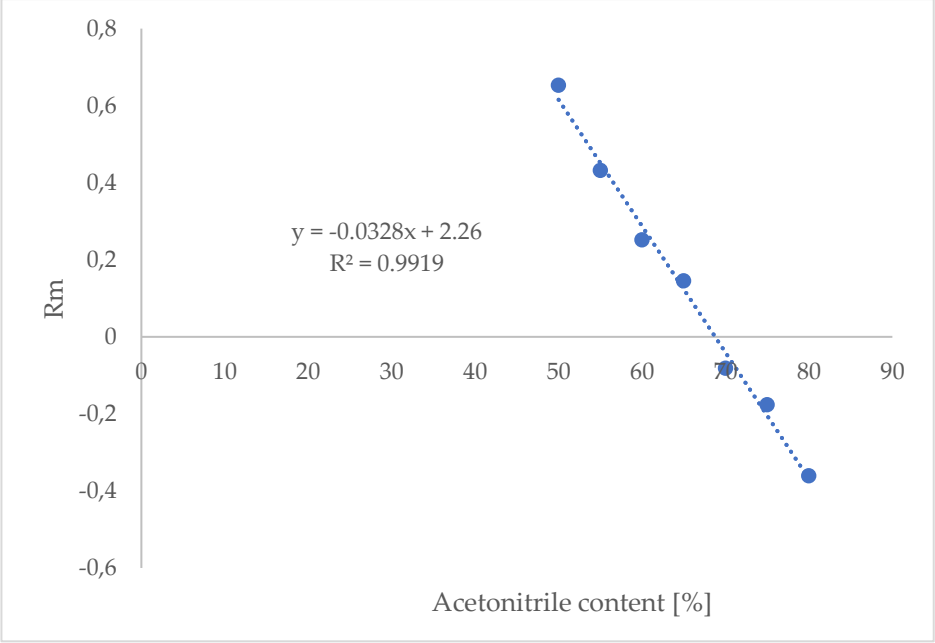


Figure S7. The R_m=f(acetonitrile content) graph for warfarin.

h. Acenocoumarol

Table S10. The results of R_f and R_m for acenocoumarol.

Acetonitrile content [%]	Mean R_f	R_m
50	0.2423	0.4951
55	0.2797	0.4108
60	0.3945	0.1861
65	0.4978	0.0038
70	0.5912	-0.1603
75	0.6610	-0.2900
80	0.7522	-0.4822

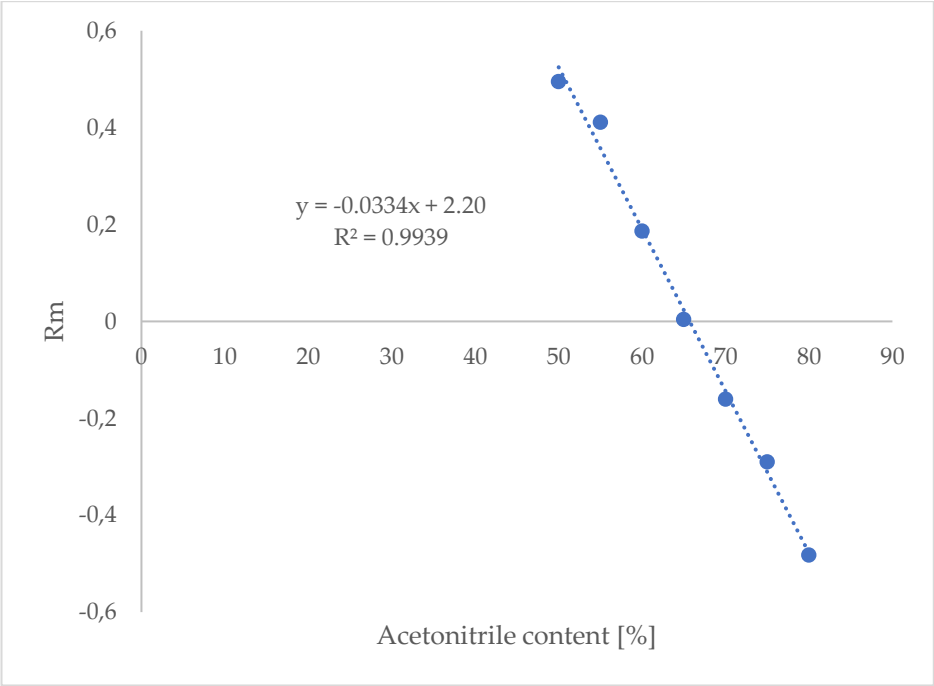


Figure S8. The R_m=f(acetonitrile content) graph for acenocoumarol.

i. Clopidogrel

Table S11. The results of R_f and R_m for clopidogrel.

Acetonitrile content [%]	Mean R_f	R_m
50	0.0904	1.0029
55	0.1037	0.9368
60	0.1447	0.7718
65	0.1908	0.6276
70	0.2184	0.5538
75	0.2576	0.4598
80	0.3189	0.3296

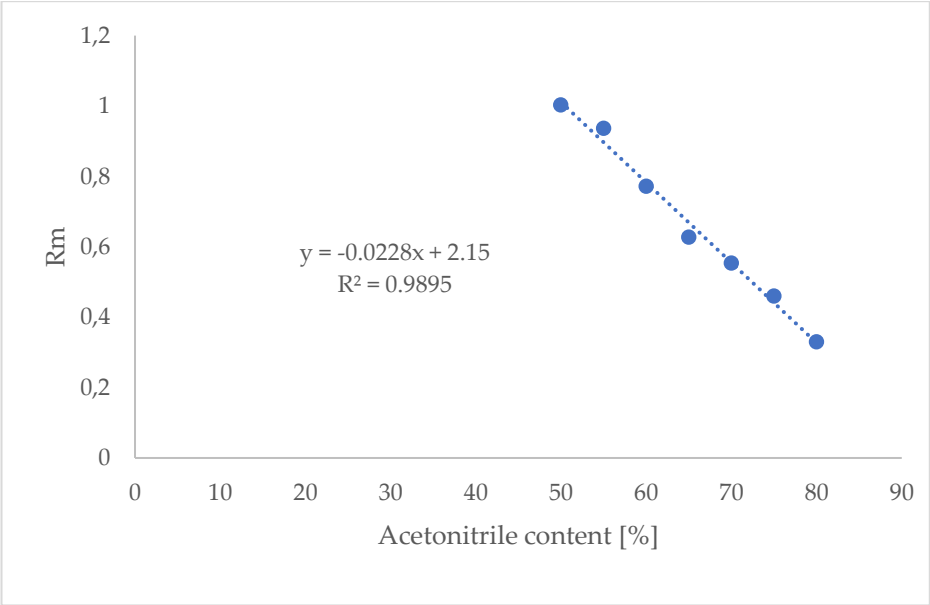


Figure S9. The R_m=f(acetonitrile content) graph for clopidogrel.

j. Prasugrel

Table S12. The results of R_f and R_m for prasugrel.

Acetonitrile content [%]	Mean R_f	R_m
50	0.2036	0.5923
55	0.2330	0.5174
60	0.2618	0.4503
65	0.3002	0.3676
70	0.3358	0.2963
75	0.3763	0.2195
80	0.4253	0.1307

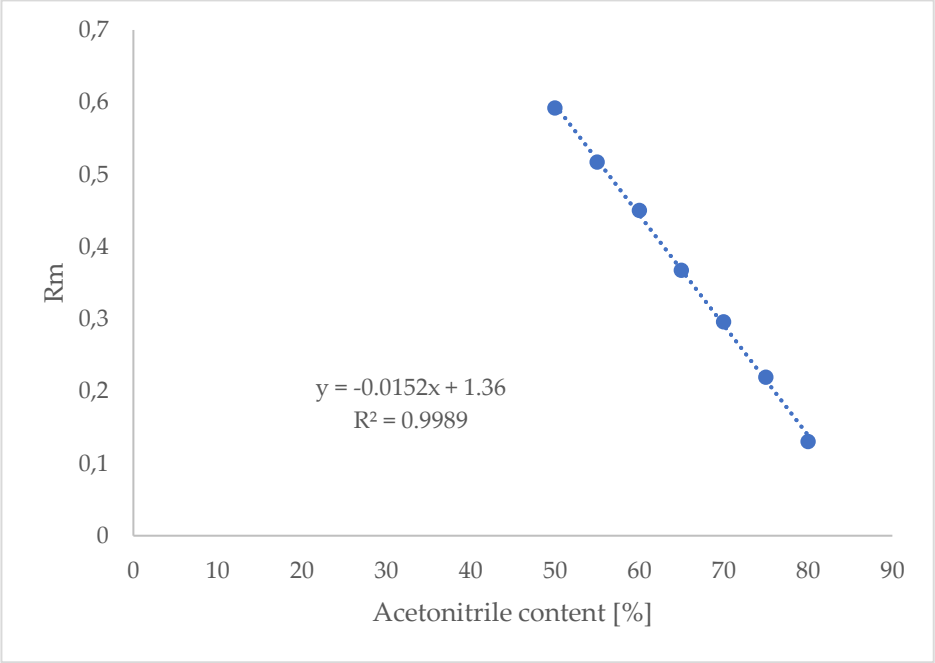


Figure S10. The R_m=f(acetonitrile content) graph for prasugrel.