

Table 2.7. TLC data of the prepared compounds

compound No	CHCl ₃ :MeOH	CHCl ₃ :MeOH	EtOAc
	9.5:0.5	9.95:0.5	
I	0.92	0.50	0.67
II	0.05	0.03	0.04
III	0.96	0.57	0.94
IV	0.19	0.09	0.10
V	0.43	0.21	0.35
VI	0.89	0.53	0.76
VII	0.93	0.56	0.82
VIII	1.00	0.79	0.90
IX	0.32	0.1	0.27
X	0.85	0.49	0.58
XI	0.98	0.59	0.80
XII	1.00	0.64	0.93
XIII	0.12	0.07	0.10
XIV	0.82	0.47	0.62
XV	0.88	0.53	0.73
XVI	0.92	0.60	0.82
XVII	0.35	0.11	0.29
XVIII	0.90	0.49	0.63
XIX	1.00	0.60	0.82
XX	1.00	0.69	0.90

Table 2.8: Retention times of the test compounds and their metabolites

Compound	RT
I	1.583
II	1.266
III	2.000
IV	1.300
V	1.250
Metabolites of comp. I	1.116, 2.433
Metabolites of comp. II	1.100, 2.533
Metabolites of comp. III	1.233, 2.250
Metabolites of comp. IV	1.350, 1.600, 1.866, 2.216
Metabolites of comp. V	1.700, 2.250, 3.533
Control	1.883, 2.266

Table 2.9: Optical activity

Compound No.	Optical rotation	
	Blank reading	Compound reading
I	(-) 2.15	(-) 2.15
II	(-) 2.15	(-) 2.15
III	(-) 2.15	(-) 2.15
IV	(-) 2.15	(-) 2.15
V	(-) 2.15	(-) 2.15
VI	(-) 2.15	(-) 2.15
VII	(-) 2.15	(-) 2.15
VIII	(-) 2.15	(-) 2.15
IX	(-) 2.15	(-) 2.15
X	(-) 2.15	(-) 2.15
XI	(-) 2.15	(-) 2.15
XII	(-) 2.15	(-) 2.15
XIII	(-) 2.15	(-) 2.15
XIV	(-) 2.15	(-) 2.15
XV	(-) 2.15	(-) 2.15
XVI	(-) 2.15	(-) 2.15
XVII	(-) 2.15	(-) 2.15
XVIII	(-) 2.15	(-) 2.15
XIX	(-) 2.15	(-) 2.15
XX	(-) 2.15	(-) 2.15

Model D2, polarimeter, Bellingham and Stanley Ltd. England