

Table 5: Intra-day and inter-day precision data

		150 ng/ml			4000 ng/ml			6000 ng/ml		
		Day 1	Day 2	Day 3	Day 1	Day 2	Day 3	Day 1	Day 2	Day 3
Intra-day	Mean	95.32	99.60	99.50	96.24	105.70	105.81	101.63	100.47	100.95
	CV%	6.11	2.23	2.47	3.70	0.47	0.76	1.45	0.43	0.52
Inter-day	Mean	147.21			4103.22			6060.87		
	CV%	4.33			4.88			1.02		

Sensitivity

The limit of quantification is 50 ng/ml for rhein. The inter-day coefficient of variation for rhein at 50 ng/ml was 6.98 %.

Selectivity and matrix interferences

The combination of the sample preparation technique and high performance liquid chromatography with fluorescence detection method provided an assay which is free from interfering endogenous plasma components. This is evidenced by the lack of interfering peaks in the chromatograms of plasma samples; therefore no interferences from any of those plasma samples were noticed as seen in figure 12.