

Annex 3: Piperine validation data

Piperine

Calibration

Recovery and repeatability

Sample	Batch 1 concentration (mg/kg)	Batch 2 concentration (mg/kg)	Batch 3 concentration (mg/kg)
Low spike sample 1	633	766	820
Low spike sample 2	581	743	831
Low spike sample 3	623	702	754
Low spike sample 4	588	741	818
Low spike sample 5	633	738	809

Sample	Batch 1 concentration (mg/kg)	Batch 2 concentration (mg/kg)	Batch 3 concentration (mg/kg)
Low spike sample 6	599	702	814
Low spike sample 7	620	688	758
Average	611	726	801
Recovery	68%	81%	89%
Repeatability (RSD)	3.5%	3.9%	3.9%
Medium spike sample 1	16,327	14,128	12,387
Medium spike sample 2	15,272	13,283	12,466
Medium spike sample 3	16,045	11,923	11,436
Medium spike sample 4	15,890	12,224	12,300
Medium spike sample 5	15,569	11,036	12,633
Medium spike sample 6	15,362	10,935	12,868
Medium spike sample 7	16,604	11,152	12,420
Average	15,867	12,097	12,359
Recovery	88%	67%	69%

Sample	Batch 1 concentration (mg/kg)	Batch 2 concentration (mg/kg)	Batch 3 concentration (mg/kg)
Repeatability (RSD)	3.1%	10.1%	3.6%

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