

Table S1. Summary of Calibration and Prediction PCR parameters for the tannin profile

	PCs	Regions (cm ⁻¹)	R ² C	RMSEC	RMSECV	R ² P	RMSEP
%CT		iPLS					
(HBAI)	7	(1186-1454)	0.82	0.92	1.04	0.86	1.01
		Main frequencies					
%CT (Thiolysis)	4	(551-1810/ 2700-3000)	0.56	1.62	1.76	0.55	1.88
mDP	3	Full range (550-4000)	0.31	1.03	1.12	0.48	1.13
PC	8	Fingerprint (700-1700)	0.87	10.2	12.8	0.88	10.8
cis	6	iPLS (9 regions ^b)	0.94	8.27	9.16	0.90	9.62

Table S2. Summary of Calibration and Prediction MLR parameters for the tannin profile

	Regions (cm ⁻¹)	R ² C	RMSEC	RMSECV	R ² P	RMSEP
%CT (HBAI)	iPLS (1186-1454)	1	1.61x10 ⁻¹³	1.43	0.76	1.32
	Main frequencies					
%CT (Thiolysis)	(551-1810/ 2700-3000)	0.999	0.17	1.58	0.75	1.56
mDP	Full range (550-4000)	1	1.35x10 ⁻¹⁴	1.09	0.41	1.63
PC	Fingerprint (700-1700)	1	1.18x10 ⁻¹²	8.80	0.96	6.26
cis	iPLS (9 regions ^b)	1	1.42x10 ⁻¹⁰	17.8	0.74	18.9