Appendix: Supplementary table:

		Specified				
		Percent				
		Polymeric	Predicted			
Stage	Treatment	Color (%)	week	Std error	Lower 95%	Upper 95%
1	Control	25	2.76	0.11	2.56	2.97
1	Glutathione	25	4.75	0.20	4.35	5.14
1	DTPA	25	3.23	0.14	2.95	3.50
1	Galacturonic acid	25	3.02	0.11	2.80	3.24
		25	2.01	0.11	• • • •	2.22
1	Tannic acid	25	3.01	0.11	2.80	3.22
2	Control	40	1.83	0.12	1.59	2.07
2	Glutathione	40	3.55	0.35	2.85	4.24
	Glutathione +					
2	Lipoic	40	3.49	0.18	3.14	3.85
2	GLA	40	4.36	0.42	3.53	5.19
2	Lipoic acid	40	2.02	0.13	1.77	2.27
2	Ascorbic acid	40	2.01	0.11	1.78	2.23

Table S1: Inverse prediction of percent polymeric color based on nonlinear regression model

Supplementary figures:

Figure S1. Three parameter exponential decay model of percent polymeric color in Stage 1.

Figure S2. Three parameter exponential decay model of percent polymeric color in Stage 2.

Figure S3. ANOM plots of predicted week and growth rate of total anthocyanins and percent polymeric color in Stage 1.

Figure S4. ANOM plots of predicted week and growth rate of total anthocyanins and percent polymeric color in Stage 2.

Figure S5. Ellagitannin concentrations in blackberry juice fortified with stabilizing agents over accelerated storage in Stage 1. LSmeans Treatment*Time \pm one standard error (n=3) based on the fitted model. Dashed horizontal line represents mean value for prepasteurized juice.

Figure S6. Ellagitannin concentrations in blackberry juice fortified with stabilizing agents over accelerated storage in Stage 2. LSmeans Treatment*Time \pm one standard error (n=3) based on the fitted model. Dashed horizontal line represents mean value for prepasteurized juice.

Figure S7. Flavonol concentrations in blackberry juice fortified with stabilizing agents over accelerated storage in Stage 1. LSmeans Treatment*Time \pm one standard error (n=3) based on the fitted model. Dashed horizontal line represents mean value for prepasteurized juice.

Figure S8. Flavonol concentrations in blackberry juice fortified with stabilizing agents over accelerated storage in Stage 2. LSmeans Treatment*Time \pm one standard error (n=3) based on the fitted model. Dashed horizontal line represents mean value for prepasteurized juice.

Figure S9. Mass spectra of quercetin-3-rutinoside in negative mode.

Figure S10. Mass spectra of quercetin-3-pentosyl-glucuronide in negative mode.

Figure S11. Mass spectra of quercetin-3-galactoside in negative mode.

Figure S12. Mass spectra of quercetin-3-glucoside in negative mode.

Figure S13. Mass spectra of quercetin-3-glucuronide in negative mode.

Figure S14. Mass spectra of unidentified blackberry flavonol in negative mode.



Figure S1



Figure S2



Figure S3



Figure S4



Figure S5



Figure S6

Figure S8

Figure S10

Figure S11

Figure S13

Figure S14