

Supplementary Table S1. Two-class classification results for the training and test sets of peach samples via partial least squares discrimination analysis (PLS-DA) model using optical parameters (μ_a , μ_s' , $\mu_a \times \mu_s'$ and μ_{eff}) over 600–1000 nm.

Optical parameter	Actual class	Training set (%)	Testing set		
			Predicted intact class	Predicted bruise class	Accuracy (%)
(A) μ_a	Intact	90.50	94	6	94.00
	Bruise	75.75	44	156	78.00
	Overall	79.44	98	202	82.00
(B) μ_s'	Intact	39.50	42	58	42.00
	Bruise	76.75	49	151	75.50
	Overall	67.44	34	266	67.13
(C) $\mu_a \times \mu_s'$	Intact	87.00	79	21	79.00
	Bruise	83.75	32	168	84.00
	Overall	84.56	81	219	82.75
(D) μ_{eff}	Intact	84.50	73	27	73.00
	Bruise	81.50	24	176	88.00
	Overall	82.25	79	221	84.25