

Table S1. Discriminant function analysis output and wavelength components for each function

Wavelength	Function		Function	Eigenvalue	% Variance	Cumulative %	Canonical correlation
	1	2					
350 nm	-1.262	-4.223	1	6.666	71.9	71.9	0.932
355 nm	5.112	8.432	2	2.609	28.1	100	0.85
360 nm	0.03	-4.179					
365 nm	-6.631	-5.797					
370 nm	6.713	4.498					
375 nm	2.464	-8.42	Test of function(s)	Wilks' lambda	Chi-square	Degrees of freedom	Significance
385 nm	-15.369	15.243	1 through 2	0.036	54.782	20	0
400 nm	19.348	-10.973	2	0.277	21.176	9	0.012
410 nm	-11.511	4.799					
550 nm	1.462	0.655					

Linear combinations of wavelength variable measurements in two functions are able to describe 100% of the variation in wavelength reflectance across the three categories of color stripes.