

Table S1. Effects of LPS challenge on hue, chroma and brightness of gape and flanges. Table shows final mixed models reporting the effects of treatment, sex and their interaction (where statistically significant) on hue, chroma and brightness of palate and flanges of barn swallows nestlings at both day 2 and 3 after LPS injection.

Source of variation	Coefficient	$\chi^2$	df	P
<b>Hue palate</b>				
<i>Day 2 post-injection</i> (n = 148)				
Treatment	-0.033 (0.020)	2.660	1	0.103
Sex	-0.036 (0.023)	2.389	1	0.122
<i>Day 3 post-injection</i> (n = 146)				
Treatment	-0.010 (0.018)	0.327	1	0.568
Sex	0.038 (0.021)	3.359	1	0.067
<b>Hue flange</b>				
<i>Day 2 post-injection</i> (n = 148)				
Treatment	-0.052 (0.036)	2.169	1	0.141
Sex	-0.101 (0.041)	6.301	1	0.012
<i>Day 3 post-injection</i> (n = 146)				
Treatment	-0.053 (0.038)	2.008	1	0.156
Sex	-0.010 (0.042)	0.054	1	0.815
<b>Chroma palate</b>				
<i>Day 2 post-injection</i> (n = 148)				
Treatment	-0.015 (0.006)	6.278	1	0.012
Sex	0.002 (0.007)	0.116	1	0.733
<i>Day 3 post-injection</i> (n = 146)				
Treatment	-0.008 (0.005)	2.231	1	0.135
Sex	0.011 (0.006)	3.470	1	0.062
<b>Chroma flange</b>				
<i>Day 2 post-injection</i> (n = 148)				
Treatment	-0.016 (0.007)	5.591	1	0.018
Sex	-0.020 (0.065)	7.950	1	0.005
Treatment × sex	0.0023 (0.009)	6.026	1	0.014
<i>Day 3 post-injection</i> (n = 146)				
Treatment	0.004 (0.006)	0.430	1	0.512
Sex	-0.009 (0.006)	2.029	1	0.154
<b>Brightness palate</b>				
<i>Day 2 post-injection</i> (n = 148)				
Treatment	-0.011 (0.008)	2.11	1	0.147
Sex	-0.006 (0.009)	0.442	1	0.506
<i>Day 3 post-injection</i> (n = 146)				
Treatment	0.006 (0.007)	0.929	1	0.335
Sex	0.002 (0.008)	0.003	1	0.855
<b>Brightness flange</b>				
<i>Day 2 post-injection</i> (n = 148)				
Treatment	0.000 (0.001)	2.18	1	0.996
Sex	0.013 (0.015)	0.74	1	0.391
<i>Day 3 post-injection</i> (n = 146)				
Treatment	-0.008 (0.016)	0.290	1	0.590
Sex	0.031 (0.029)	2.983	1	0.084