

		wt		neb ¹⁵		neb ¹¹		neb ³⁴		neb ²¹		neb ³⁰	
		n (pixels)	average intensity	n (pixels)	average intensity	n (pixels)	average intensity	n (pixels)	average intensity	n (pixels)	average intensity	n (pixels)	average intensity
measurement 1	fish 1	148	254.40	145	156.28	184	174.32	138	165.56	168	136.39	117	255.00
	fish 2	147	254.92	156	97.59	145	113.32	175	210.39	183	81.21	121	251.45
	fish 3	135	255.00	146	124.93	122	35.39	160	153.63	147	154.28	117	253.10
	fish 4	124	255.00	131	175.58	147	100.64	157	174.27	147	43.17	124	255.00
	fish 5	135	255.00	150	159.04	121	120.42	164	186.36	154	58.03	142	255.00
	fish 6	169	250.24										
	fish 7	140	255.00										
	fish 8	158	255.00										
measurement 2	fish 1	142	254.97	143	194.88	156	233.27	144	201.54	121	187.05	255.00	255.00
	fish 2	122	255.00	135	181.41	132	187.08	145	234.83	180	161.42	255.00	255.00
	fish 3	111	254.94	132	189.16	99	61.12	137	221.50	136	231.19	254.77	254.77
	fish 4	120	254.95	117	234.72	155	44.15	132	206.52	125	85.69	255.00	255.00
	fish 5	110	255.00	145	216.88	132	154.34	148	231.09	150	153.58	255.00	255.00
	fish 6	153	254.62										
	fish 7	123	255.00										
	fish 8	151	255.00										
n		16		10		10		10		10		10	
Mean		254.6		122.4		173		198.6		129.2		254.4	
SEM		0.2955		20.6		12.92		8.793		19.07		0.3806	

Supplemental Table 2. Average birefringence intensity measurements (grey scale value) and descriptive statistics.