



B

Band	Quantity by Coomassie Blue Staining Intensity												
	Light + Vehicle					Light + AL-8309A					Dark Control		
	1	2	3	4	5	6	7	8	9	10	11	12	13
1	30.15	30.54	29.62	30.27	31.46	31.14	31.17	30.80	30.25	31.89	29.37	31.75	29.82
2	60.05	61.36	58.20	59.64	59.47	58.31	60.35	59.50	63.06	61.37	63.94	61.74	60.79
3	167.57	165.14	171.26	168.14	159.96	169.02	161.46	126.92	168.59	170.46	170.54	166.30	162.23
4	99.83	97.00	97.22	97.32	94.99	93.38	82.72	81.04	92.53	97.65	100.68	99.31	97.37
5	58.72	59.26	60.11	60.03	60.08	58.48	58.48	59.53	59.59	61.83	62.70	58.27	60.85
6	47.52	46.73	47.84	46.10	46.13	45.00	41.96	49.90	43.84	45.71	44.99	50.11	45.16
7	43.36	40.13	37.49	42.35	35.19	46.93	40.87	37.67	39.60	41.64	38.94	43.42	36.22
8	49.80	49.68	50.53	48.43	52.82	55.34	47.94	49.60	49.36	52.64	54.04	51.50	50.92
9	38.88	38.24	38.00	37.85	41.43	41.43	37.79	37.50	48.74	41.74	39.78	44.65	35.83
10	52.42	52.37	53.25	52.18	52.15	55.44	54.99	53.57	54.24	55.40	55.24	56.18	57.22
11	125.13	126.88	128.31	125.27	128.24	128.74	129.82	136.06	129.59	127.81	128.68	127.30	129.36
12	83.51	89.28	83.64	80.82	84.13	85.26	74.73	82.73	85.05	88.19	89.29	87.66	85.50
13	348.27	349.15	346.12	338.07	330.75	349.77	333.63	349.83	330.10	337.27	334.97	339.31	338.27
14	86.10	85.84	86.36	84.41	86.44	85.17	85.00	89.09	83.96	82.33	79.46	84.73	84.16
15	89.03	87.26	89.53	91.01	91.54	85.45	76.52	84.84	84.42	93.88	78.78	79.45	82.10
16	67.04	65.46	68.42	66.52	67.61	62.81	65.36	63.34	62.27	74.88	73.23	69.68	70.64
17	54.32	57.63	58.32	55.79	56.24	66.89	59.83	63.39	64.03	64.04	63.22	57.83	54.03
18	59.57	60.63	59.18	61.28	60.85	61.05	65.60	70.29	62.54	70.89	68.88	68.14	62.13
19	52.03	49.26	52.25	53.15	53.44	59.02	52.43	57.29	55.92	51.23	53.51	52.23	50.69
20	38.58	39.52	37.51	36.22	36.79	41.38	33.95	37.90	38.45	35.07	36.17	32.67	33.28
21	35.34	34.10	38.14	33.26	33.66	35.62	37.22	36.60	36.54	32.99	33.81	35.93	34.60
22	39.70	40.00	39.73	40.59	38.91	40.70	33.75	35.30	34.36	32.54	30.01	28.59	28.79
23	36.30	38.27	36.87	38.45	39.95	42.54	39.18	36.49	36.77	34.47	33.02	34.17	32.85
24	57.54	55.55	59.44	57.08	55.76	57.66	57.98	50.57	50.11	57.07	55.27	58.78	52.38
25	113.22	115.77	115.36	114.21	114.71	118.53	122.94	116.14	169.56	108.20	107.20	114.12	122.40
26	30.15	30.54	29.62	30.27	31.46	31.14	31.17	30.80	30.25	31.89	29.37	31.75	29.82
27	60.05	61.36	58.20	59.64	59.47	58.31	60.35	59.50	63.06	61.37	63.94	61.74	60.79
28	167.57	165.14	171.26	168.14	159.96	169.02	161.46	126.92	168.59	170.46	170.54	166.30	162.23
29	99.83	97.00	97.22	97.32	94.99	93.38	82.72	81.04	92.53	97.65	100.68	99.31	97.37
30	58.72	59.26	60.11	60.03	60.08	58.48	58.48	59.53	59.59	61.83	62.70	58.27	60.85
Lane Totals	1933.97	1935.04	1942.72	1918.42	1912.70	1975.07	1885.65	1895.87	1973.46	1951.19	1925.70	1933.82	1897.59
Group Average			1928.57					1936.25				1919.04	
SD			12.51					42.74				19.01	
RSD			0.65%					2.21%				0.99%	

0.42 = p-value [Light + Vehicle] vs [Dark Control]
 0.54 = p-value [Light + AL-8309A] vs [Dark Control]
 0.71 = p-value [Light+Vehicle] vs [Light+AL-8309A]

Supporting Figure S3. Coomassie Blue Staining as Loading Control for Figure 4.

(A) Coomassie blue staining intensity of the indicated SDS-PAGE bands in hardcopy Figure 4B was quantified using Quantity One software (BioRad). (B) The quantity of each highlighted band is listed in arbitrary units along with the sum total per lane, as well as the average total lane quantity, standard deviation (SD) and relative standard deviation (RSD) for the groups Light + Vehicle, Light + AL-8309A, Dark Control. Also shown are p-values (2 sided t-test) for comparison of total lane quantities between the three experimental groups. The statistical analyses reveal relatively low variability and no significant differences in total staining intensity between the experimental groups. Overall, Coomassie blue staining intensity supports approximately equal amounts of protein applied per lane.