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Summary of accuracy results for final profiles on Microtracers Spot Counting Program

Red and red+blue profiles' results for filter paper with red spots:

hand count	red profile	% off	red+blue profile	% off
182	186	2.20	191	4.95
178	185	3.93	176	1.12
233	233	0.00	233	0.00
231	232	0.43	233	0.87
170	170	0.00	172	1.18
101	101	0.00	100	0.99
121	121	0.00	122	0.83
116	115	0.86	116	0.00
161	160	0.62	160	0.62
114	114	0.00	115	0.88
290	289	0.34	285	1.72
213	212	0.47	215	0.94
239	231	3.35	235	1.67
219	215	1.83	216	1.37
212	209	1.42	208	1.89
166	162	2.41	165	0.60
202	199	1.49	198	1.98
117	116	0.85	118	0.85
252	251	0.40	248	1.59
148	151	2.03	148	0.00
102	104	1.92	103	0.98
332	338	1.81	327	1.51
156	160	2.56	156	0.00
61	60	1.64	63	3.28
80	81	1.25	82	2.50
208	204	1.92	201	3.48
304	294	3.29	297	2.30
77	79	2.60	78	1.30
	Avg. % off	1.41	Avg. % off	1.41
	std dev.	1.13	std dev.	1.13

Table 1: Gives the accuracy results for 28 tested filter papers with medium-good quality spots for the red profile included with program and the red +blue profile included in program. Overall average % off of the hand count for both profiles was found to be 1.41%.

Blue and red+blue profiles' results for filter papers with blue spots:

hand count	blue profile	% off	red+blue profile	% off
282	282	0.00	280	0.71
201	199	1.00	197	1.99
244	248	1.64	235	3.69
148	150	1.35	147	0.68
153	151	1.31	150	1.96
104	101	2.88	93	10.58
110	109	0.91	106	3.64
144	146	1.39	141	2.08
86	87	1.16	86	0.00
84	81	3.57	81	3.57
278	274	1.44	276	0.72
262	248	5.34	248	5.34
337	321	4.75	323	4.15
272	264	2.94	261	4.04
227	219	3.52	215	5.29
126	129	2.38	125	0.79
175	175	0.00	169	3.43
184	190	3.26	180	2.17
135	135	0.00	135	0.00
158	157	0.63	158	0.00
216	212	1.89	217	0.46
104	102	1.92	108	3.85
193	191	1.04	190	1.58
168	167	0.60	169	0.60
75	77	2.67	78	4.00
60	59	1.67	59	1.67
78	78	0.00	80	2.56
160	161	0.63	161	0.63
	Avg. % off	1.78	Avg. % off	2.51
	std dev.	1.41	std dev.	2.28

Table 2: Gives the accuracy results for 28 tested filter papers with medium-good quality spots for the blue profile included with program and the red +blue profile included in program. Overall average % off of the hand count for the blue profile was 1.78% and for the red+blue profile was 2.51%.

All results were obtained using the Epson V33 Scanner at 225dpi.