Eaglenos EN102 Compared with Radiometer ABL90 in Arterial Blood Samples

1. Performance Parameters

Parameter	Whole Blood Accuracy Requirements
pH	±0.04
pO2	±7.5mmHg/±15%
pCO2	±5.0mmHg/±8%
Na+	±3%
K+	±3%
iCa2+	±0.05mM/±5%
Cl-	±3%
Glu	±0.4mM/±10%
Lac	±0.6mM/±12%
Hct	±3%PCV/±6.0%

2. Protocal

The reference samples used in this comparison were arterial whole blood in clinical settings, and the verified product was the blood gas analyzer EN102, along with the compatible blood gas test card EG10+, both manufactured by Nanjing Eaglenos Co., Ltd. The comparative instrument used was the Radiometer ABL90, which is widely recognized in the industry. The comparison process complies with the requirements of CLSI EP09c.

3. Results

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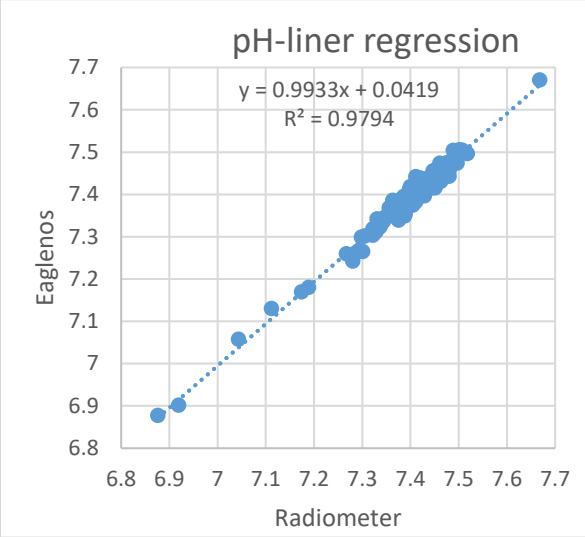

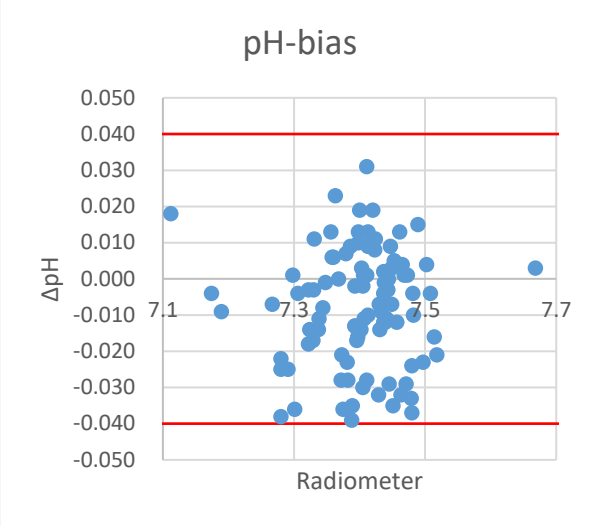

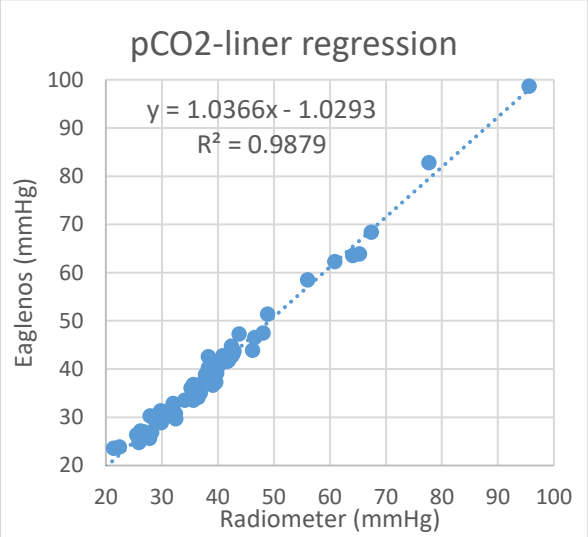

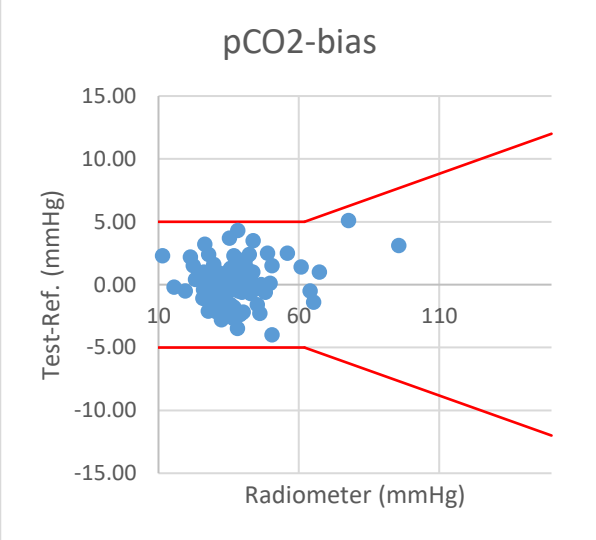

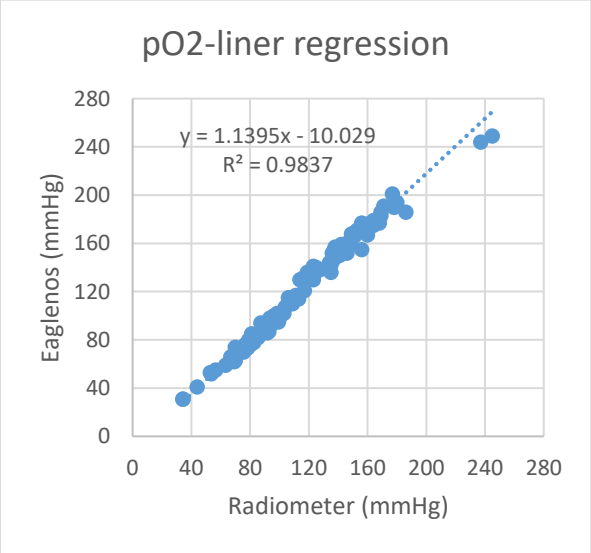

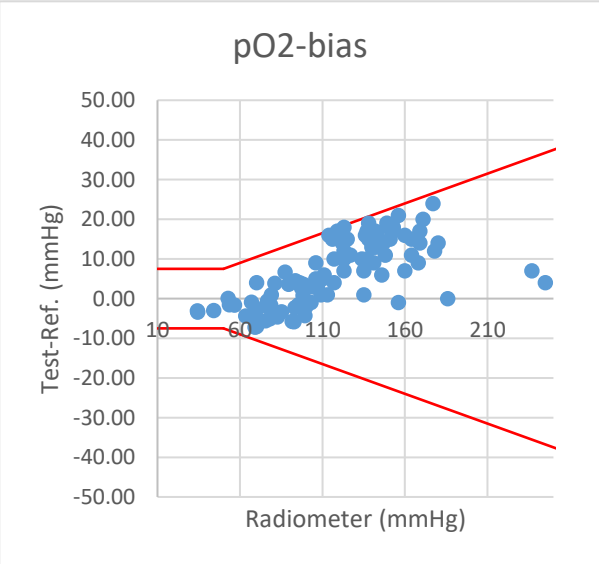

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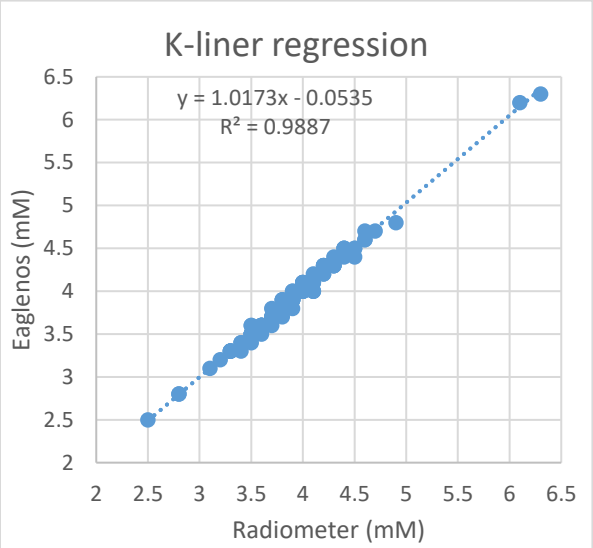

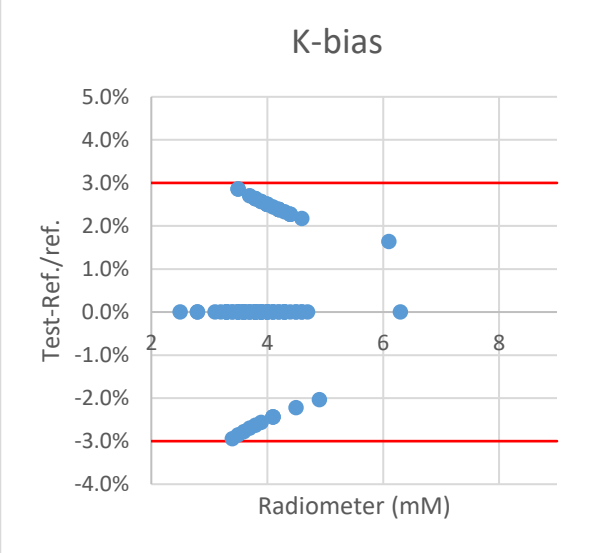

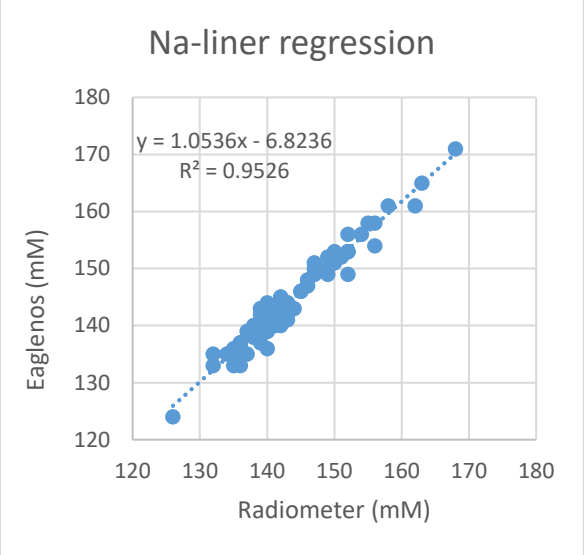

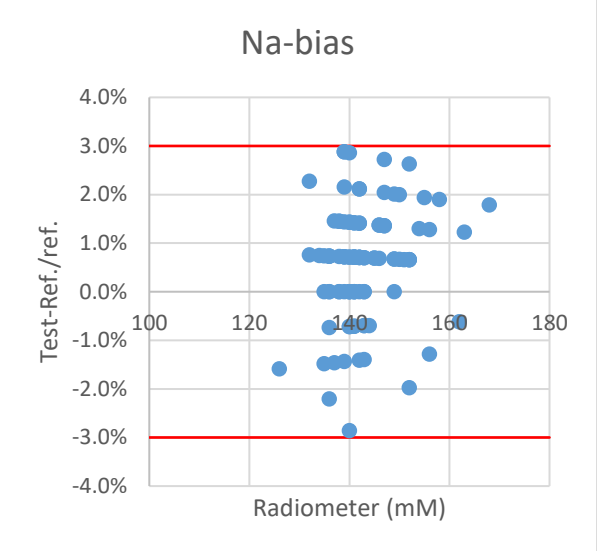

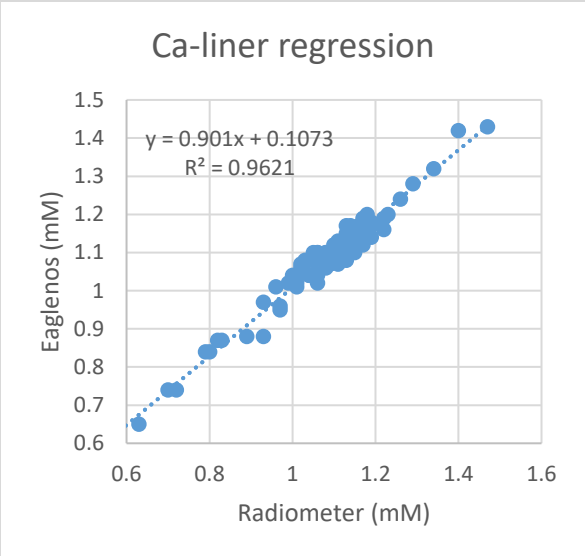

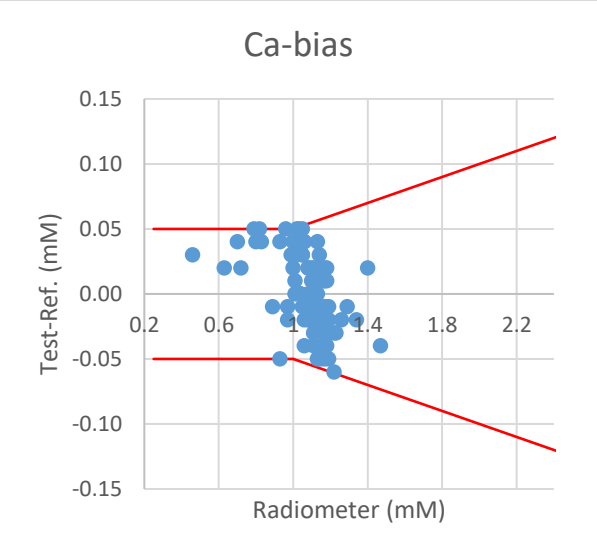

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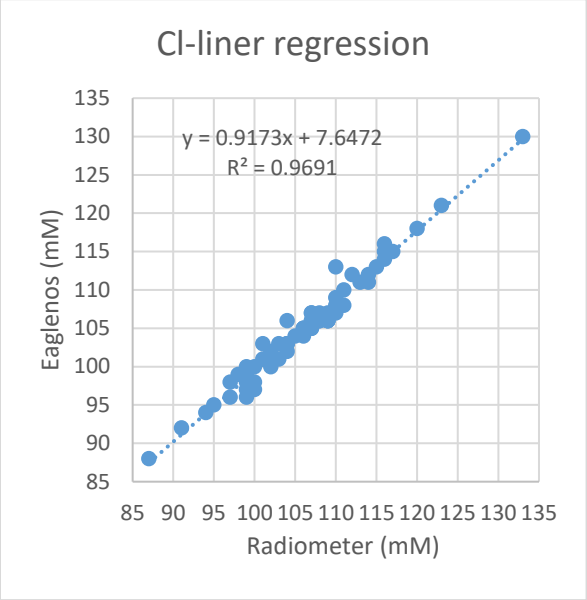

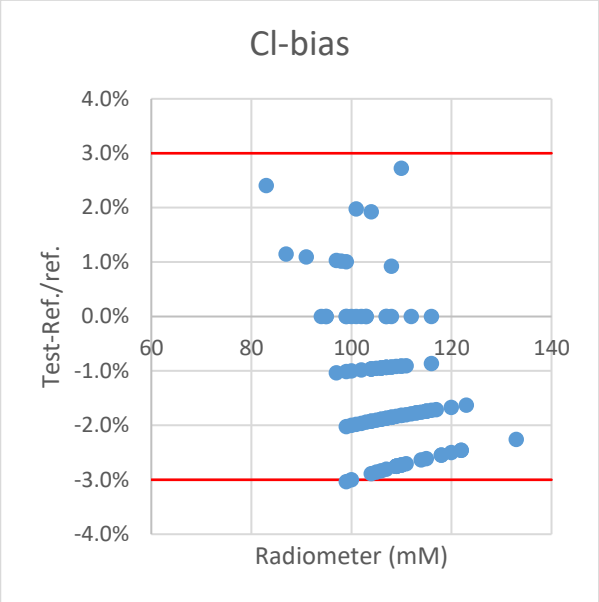

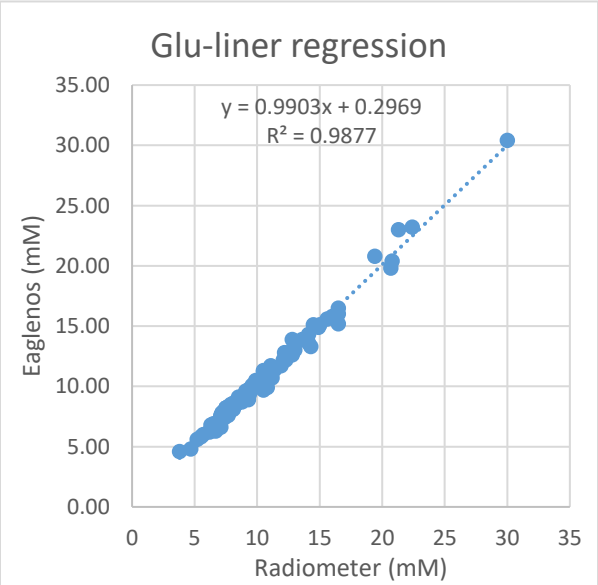

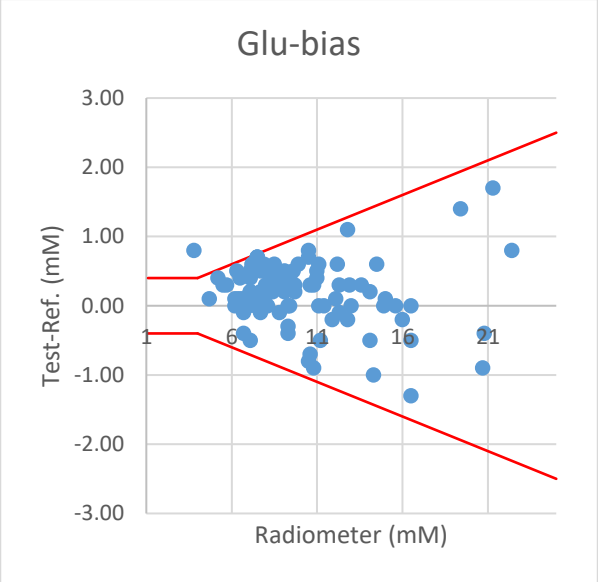

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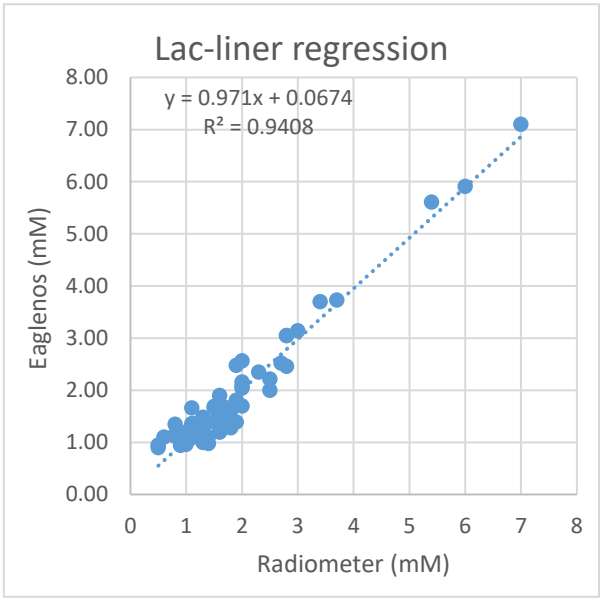

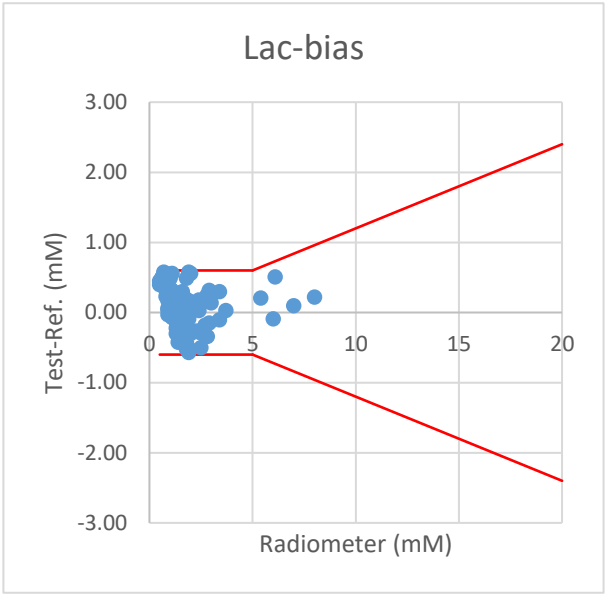

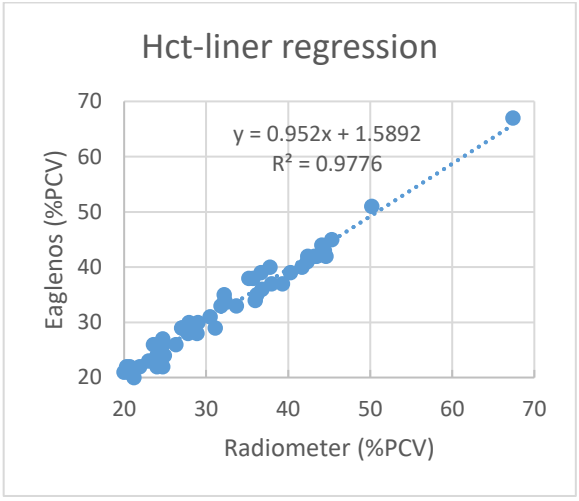

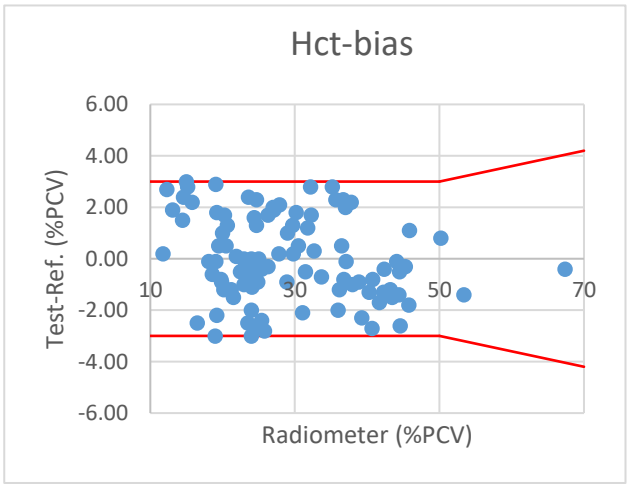

4. Conclusion

The accuracy of the blood gas analyzer and the associated test card produced by Nanjing Eaglenos Co., Ltd. is in accordance with the manufacturer's claims or internationally recognized quality standards.

5. Appendix: Raw Data

ID	pH			pCO2				pO2			
	ABL90	EN102	Abs. Dev.	ABL90	EN102	Abs. Dev.	Rel. Dev.	ABL90	EN102	Abs. Dev.	Rel. Dev.
1	7.480	7.456	-0.024	25.5	26.4	0.9		135.0	136		0.7%
2	7.668	7.671	0.003	19.6	19.1	-0.5		79.0	80		1.3%
3	7.397	7.381	-0.016	35.6	36.8	1.2		135.0	142		5.2%
4	7.396	7.379	-0.017	36.5	36.7	0.2		34.1	31	-3.1	
5	6.876	6.878	0.002	38.3	42.6	4.3		80.4	76		-5.5%
6	7.330	7.327	-0.003	95.6	98.7		3.2%	98.2	99		0.8%

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7	7.471	7.442	-0.029	48.1	47.5	-0.6		106.0	111		4.7%
8	7.497	7.474	-0.023	28.8	29.3	0.5		110.0	115		4.5%
9	7.405	7.375	-0.030	27.9	30.3	2.4		104.0	107		2.9%
10	7.267	7.260	-0.007	48.9	51.4	2.5		34.4	31	-3.4	
11	7.457	7.445	-0.012	46.6	46.6	0.0		98.4	102		3.7%
12	6.919	6.902	-0.017	77.7	82.8		6.6%	44.0	41	-3.0	
13	7.403	7.406	0.003	38.3	40.3	2.0		56.6	55		-2.8%
14	7.043	7.058	0.015	60.9	62.3	1.4		109.0	110		0.9%
15	7.406	7.407	0.001	15.6	15.4	-0.2		92.8	87		-6.3%
16	7.443	7.440	-0.003	41.9	41.8	-0.1		123.0	135		9.8%
17	7.393	7.380	-0.013	31.1	31.3	0.2		99.3	95		-4.3%
18	7.337	7.323	-0.014	22.4	23.9	1.5		89.4	93		4.0%
19	7.381	7.358	-0.023	32.0	32.9	0.9		156.0	155		-0.6%
20	7.324	7.310	-0.014	42.4	44.8	2.4		76.7	75		-2.2%
21	7.445	7.416	-0.029	39.0	40.3	1.3		127.0	138		8.7%
22	7.112	7.130	0.018	29.8	31.4	1.6		145.0	158		9.0%
23	7.405	7.403	-0.002	42.7	43.2	0.5		134.0	144		7.5%
24	7.375	7.339	-0.036	29.4	30.7	1.3		91.7	86		-6.2%
25	7.429	7.397	-0.032	35.2	36.1	0.9		70.0	74		5.7%
26	7.291	7.266	-0.025	25.9	24.8	-1.1		237.0	244		3.0%
27	7.280	7.255	-0.025	40.9	42.8	1.9		177.0	201		13.6%
28	7.389	7.354	-0.035	28.7	29.7	1.0		78.6	77		-2.0%
29	7.280	7.258	-0.022	32.5	29.7	-2.8		150.0	168		12.0%
30	7.388	7.349	-0.039	30.9	30.4	-0.5		125.0	140		12.0%
31	7.174	7.170	-0.004	65.3	63.9		-2.1%	169.0	183		8.3%
32	7.189	7.180	-0.009	29.9	28.9	-1.0		116.0	131		12.9%
33	7.451	7.416	-0.035	43.8	47.3	3.5		95.5	94		-1.6%
34	7.372	7.344	-0.028	56.0	58.5	2.5		66.9	66		-1.3%
35	7.373	7.352	-0.021	32.1	32.7	0.6		82.6	78		-5.6%
36	7.322	7.319	-0.003	37.8	38.0	0.2		123.0	130		5.7%
37	7.280	7.242	-0.038	67.4	68.4		1.5%	76.6	76		-0.8%
38	7.480	7.443	-0.037	28.2	26.9	-1.3		169.0	186		10.1%
39	7.382	7.354	-0.028	46.2	43.9	-2.3		123.0	133		8.1%
40	7.301	7.265	-0.036	64.1	63.6		-0.8%	171.0	191		11.7%
41	7.411	7.383	-0.028	42.9	43.7	0.8		148.0	159		7.4%
42	7.437	7.425	-0.012	39.8	39.2	-0.6		96.0	100		4.2%
43	7.518	7.497	-0.021	34.1	33.6	-0.5		140.0	153		9.3%
44	7.479	7.446	-0.033	29.2	29.1	-0.1		160.0	167		4.4%
45	7.463	7.431	-0.032	26.8	27.0	0.2		141.0	150		6.4%
46	7.322	7.304	-0.018	41.6	41.6	0.0		164.0	179		9.1%
47	7.441	7.430	-0.011	26.1	25.7	-0.4		69.8	67		-4.0%
48	7.430	7.423	-0.007	39.2	40.4	1.2		78.1	73		-6.5%
49	7.407	7.396	-0.011	39.6	37.3	-2.3		81.1	85		4.8%
50	7.441	7.438	-0.003	32.4	30.8	-1.6		93.3	91		-2.5%
51	7.411	7.412	0.001	42.5	42.7	0.2		75.8	74		-2.4%

52	7.386	7.395	0.009	38.5	38.0	-0.5		117.0	127		8.5%
53	7.449	7.452	0.003	27.8	25.7	-2.1		142.0	159		12.0%
54	7.338	7.327	-0.011	21.4	23.6	2.2		160.0	176		10.0%
55	7.413	7.426	0.013	26.2	27.2	1.0		147.0	161		9.5%
56	7.489	7.504	0.015	37.8	38.9	1.1		168.0	177		5.4%
57	7.437	7.439	0.002	38.5	38.5	0.0		122.0	136		11.5%
58	7.411	7.442	0.031	35.6	33.6	-2.0		70.0	63		-10.0%
59	7.306	7.302	-0.004	40.1	40.7	0.6		186.0	186		0.0%
60	7.502	7.506	0.004	31.0	30.3	-0.7		153.0	170		11.1%
61	7.420	7.439	0.019	37.9	38.6	0.7		164.0	175		6.7%
62	7.465	7.469	0.004	39.1	36.7	-2.4		66.4	62		-6.6%
63	7.356	7.369	0.013	36.9	35.1	-1.8		53.5	52		-2.8%
64	7.393	7.380	-0.013	36.5	34.2	-2.3		52.9	53		0.2%
65	7.439	7.428	-0.011	41.5	42.8	1.3		149.0	168		12.8%
66	7.402	7.388	-0.014	37.8	35.3	-2.5		137.0	154		12.4%
67	7.439	7.427	-0.012	50.5	46.5	-4.0		103.0	102		-1.0%
68	7.400	7.419	0.019	30.2	28.1	-2.1		136.0	152		11.8%
69	7.358	7.364	0.006	34.6	34.0	-0.6		114.0	130		14.0%
70	7.482	7.472	-0.010	34.7	35.4	0.7		107.0	110		2.8%
71	7.398	7.408	0.010	35.8	34.2	-1.6		100.0	98		-2.0%
72	7.481	7.477	-0.004	28.8	29.9	1.1		67.5	63		-6.7%
73	7.344	7.336	-0.008	39.7	39.5	-0.2		85.3	82		-3.9%
74	7.379	7.386	0.007	46.0	45.7	-0.3		138.0	157		13.8%
75	7.398	7.411	0.013	42.9	42.2	-0.7		123.0	141		14.6%
76	7.447	7.456	0.009	45.3	43.7	-1.6		69.2	62		-10.4%
77	7.423	7.431	0.008	35.9	36.9	1.0		117.0	121		3.4%
78	7.514	7.498	-0.016	37.4	39.0	1.6		77.9	76		-2.4%
79	7.461	7.474	0.013	40.2	38.0	-2.2		75.6	70		-7.4%
80	7.368	7.368	0.000	36.8	34.1	-2.7		63.4	59		-6.9%
81	7.453	7.458	0.005	31.2	29.0	-2.2		87.3	94		7.7%
82	7.438	7.437	-0.001	30.4	28.5	-1.9		113.0	114		0.9%
83	7.413	7.422	0.009	28.6	26.6	-2.0		178.0	190		6.7%
84	7.444	7.444	0.000	34.1	31.8	-2.3		180.0	194		7.8%
85	7.360	7.366	0.006	50.5	52.0	1.5		106.0	115		8.5%
86	7.431	7.417	-0.014	38.5	38.6	0.1		137.0	147		7.3%
87	7.298	7.299	0.001	35.8	37.1	1.3		109.0	114		4.6%
88	7.393	7.391	-0.002	34.8	34.5	-0.3		153.0	171		11.8%
89	7.468	7.469	0.001	26.5	29.7	3.2		93.5	98		4.8%
90	7.348	7.347	-0.001	43.6	44.6	1.0		141.0	154		9.2%
91	7.437	7.433	-0.004	35.3	39.0	3.7		245.0	249		1.6%
92	7.473	7.474	0.001	49.8	49.9	0.1		138.0	153		10.9%
93	7.449	7.442	-0.007	37.1	38.4	1.3		156.0	177		13.5%
94	7.329	7.312	-0.017	36.9	39.2	2.3		146.0	152		4.1%
95	7.508	7.504	-0.004	23.3	23.7	0.4		119.0	136		14.3%
96	7.424	7.435	0.011	40.7	42.6	1.9		97.3	100		2.8%

97	7.363	7.386	0.023	38.2	34.7	-3.5		142.0	155		9.2%
98	7.331	7.342	0.011	11.5	13.8	2.3		111.0	117		5.4%
99	7.433	7.424	-0.009	27.2	27.9	0.7		151.0	166		9.9%
100	7.413	7.403	-0.010	36.2	35.8	-0.4		143.0	159		11.2%

ID	K+			Na+			iCa2+				Cl-		
	ABL90	EN102	Rel. Dev.	ABL90	EN102	Rel. Dev.	ABL90	EN102	Abs. Dev.	Rel. Dev.	ABL90	EN102	Rel. Dev.
1	3.3	3.3	0.0%	136	137	0.7%	1.13	1.11		-1.8%	109	106	-2.8%
2	3.5	3.6	2.9%	126	124	-1.6%	1.12	1.11		-0.9%	87	88	1.1%
3	4.9	4.8	-2.0%	140	140	0.0%	1.13	1.17		3.5%	106	105	-0.9%
4	3.3	3.3	0.0%	163	165	1.2%	1.18	1.19		0.8%	123	121	-1.6%
5	4.1	4.1	0.0%	142	145	2.1%	0.72	0.74	0.02		109	107	-1.8%
6	3.6	3.6	0.0%	143	141	-1.4%	1.18	1.15		-2.5%	99	97	-2.0%
7	4.1	4.1	0.0%	142	143	0.7%	1.13	1.15		1.8%	104	103	-1.0%
8	3.6	3.6	0.0%	147	151	2.7%	1.06	1.02		-3.8%	116	114	-1.7%
9	3.4	3.4	0.0%	152	156	2.6%	0.93	0.97	0.04		120	118	-1.7%
10	4.1	4.0	-2.4%	156	154	-1.3%	1.10	1.08		-1.8%	110	113	2.7%
11	3.9	3.9	0.0%	135	136	0.7%	0.93	0.88	-0.05		100	97	-3.0%
12	4.2	4.2	0.0%	162	161	-0.6%	1.06	1.04		-1.9%	116	116	0.0%
13	3.6	3.6	0.0%	135	135	0.0%	1.17	1.13		-3.4%	99	96	-3.0%
14	4.5	4.5	0.0%	136	133	-2.2%	1.11	1.09		-1.8%	95	95	0.0%
15	2.8	2.8	0.0%	135	133	-1.5%	1.02	1.06		3.9%	104	103	-1.0%
16	3.8	3.8	0.0%	140	139	-0.7%	1.09	1.07		-1.8%	101	101	0.0%
17	3.5	3.5	0.0%	142	142	0.0%	1.08	1.08		0.0%	108	106	-1.9%
18	4.0	4.0	0.0%	139	139	0.0%	0.63	0.65	0.02		101	103	2.0%
19	4.2	4.2	0.0%	139	143	2.9%	1.04	1.04		0.0%	113	111	-1.8%
20	4.3	4.3	0.0%	137	135	-1.5%	1.11	1.09		-1.8%	94	94	0.0%
21	3.8	3.8	0.0%	149	150	0.7%	1.19	1.17		-1.7%	97	96	-1.0%
22	3.7	3.7	0.0%	141	140	-0.7%	1.15	1.10		-4.3%	109	106	-2.8%
23	3.3	3.3	0.0%	138	140	1.4%	1.17	1.18		0.9%	109	106	-2.8%
24	4.2	4.3	2.4%	139	140	0.7%	0.79	0.84	0.05		133	130	-2.3%
25	3.4	3.4	0.0%	141	141	0.0%	1.05	1.10		4.8%	112	112	0.0%
26	3.8	3.8	0.0%	140	144	2.9%	1.09	1.07		-1.8%	97	98	1.0%
27	3.8	3.8	0.0%	141	142	0.7%	1.08	1.10		1.9%	110	108	-1.8%
28	4.4	4.5	2.3%	168	171	1.8%	0.70	0.74	0.04		100	98	-2.0%
29	3.5	3.5	0.0%	150	151	0.7%	0.46	0.49	0.03		111	108	-2.7%
30	3.8	3.8	0.0%	139	140	0.7%	1.00	1.04		4.0%	98	99	1.0%
31	3.9	3.9	0.0%	147	150	2.0%	1.11	1.11		0.0%	104	106	1.9%
32	2.5	2.5	0.0%	140	136	-2.9%	1.14	1.17		2.6%	102	101	-1.0%
33	4.5	4.4	-2.2%	152	149	-2.0%	0.82	0.87	0.05		114	112	-1.8%
34	3.9	3.9	0.0%	147	149	1.4%	1.22	1.16		-4.9%	116	115	-0.9%

35	3.7	3.6	-2.7%	139	141	1.4%	1.17	1.19		1.7%	104	102	-1.9%
36	3.8	3.8	0.0%	142	144	1.4%	1.17	1.14		-2.6%	99	100	1.0%
37	4.0	4.0	0.0%	139	137	-1.4%	1.13	1.13		0.0%	99	99	0.0%
38	3.6	3.5	-2.8%	146	148	1.4%	1.13	1.11		-1.8%	105	104	-1.0%
39	4.7	4.7	0.0%	138	138	0.0%	1.09	1.08		-0.9%	108	107	-0.9%
40	3.5	3.4	-2.9%	140	141	0.7%	1.29	1.28		-0.8%	102	102	0.0%
41	4.3	4.3	0.0%	152	153	0.7%	1.11	1.13		1.8%	107	106	-0.9%
42	3.7	3.8	2.7%	152	153	0.7%	0.96	1.01	0.05		108	106	-1.9%
43	6.1	6.2	1.6%	132	135	2.3%	1.02	1.07		4.9%	107	107	0.0%
44	3.8	3.8	0.0%	141	143	1.4%	1.16	1.17		0.9%	114	111	-2.6%
45	3.7	3.7	0.0%	158	161	1.9%	1.19	1.14		-4.2%	104	103	-1.0%
46	4.1	4.0	-2.4%	149	152	2.0%	1.01	1.02		1.0%	110	109	-0.9%
47	4.1	4.2	2.4%	140	142	1.4%	0.97	0.95	-0.02		107	105	-1.9%
48	3.8	3.9	2.6%	140	139	-0.7%	1.05	1.08		2.9%	109	106	-2.8%
49	3.2	3.2	0.0%	137	139	1.5%	1.11	1.09		-1.8%	99	98	-1.0%
50	3.8	3.8	0.0%	143	142	-0.7%	1.11	1.07		-3.6%	100	100	0.0%
51	4.0	4.0	0.0%	132	133	0.8%	1.13	1.08		-4.4%	117	115	-1.7%
52	4.6	4.6	0.0%	136	137	0.7%	1.17	1.14		-2.6%	102	100	-2.0%
53	3.6	3.6	0.0%	144	143	-0.7%	1.18	1.14		-3.4%	107	107	0.0%
54	4.3	4.3	0.0%	136	136	0.0%	1.15	1.11		-3.5%	106	105	-0.9%
55	3.5	3.6	2.9%	140	141	0.7%	1.17	1.16		-0.9%	103	103	0.0%
56	4.3	4.4	2.3%	143	143	0.0%	1.17	1.12		-4.3%	91	92	1.1%
57	4.3	4.3	0.0%	140	140	0.0%	1.17	1.14		-2.6%	107	106	-0.9%
58	4.0	4.1	2.5%	151	152	0.7%	1.13	1.14		0.9%	106	104	-1.9%
59	3.6	3.6	0.0%	141	141	0.0%	0.80	0.84	0.04		110	107	-2.7%
60	4.4	4.5	2.3%	149	149	0.0%	1.40	1.42		1.4%	108	106	-1.9%
61	3.4	3.3	-2.9%	142	143	0.7%	1.11	1.09		-1.8%	107	105	-1.9%
62	3.5	3.5	0.0%	138	140	1.4%	1.10	1.11		0.9%	115	113	-1.7%
63	4.0	4.0	0.0%	139	142	2.2%	1.10	1.12		1.8%	111	110	-0.9%
64	3.5	3.5	0.0%	141	140	-0.7%	1.11	1.08		-2.7%	106	105	-0.9%
65	3.9	3.9	0.0%	142	143	0.7%	0.99	1.02	0.03		103	101	-1.9%
66	3.5	3.5	0.0%	152	153	0.7%	1.05	1.08		2.9%	108	107	-0.9%
67	4.0	4.1	2.5%	136	136	0.0%	1.17	1.14		-2.6%	107	106	-0.9%
68	4.2	4.3	2.4%	143	142	-0.7%	1.15	1.14		-0.9%	110	108	-1.8%
69	3.9	3.9	0.0%	141	142	0.7%	0.83	0.87	0.04		120	117	-2.5%
70	3.3	3.3	0.0%	138	139	0.7%	1.09	1.09		0.0%	106	104	-1.9%
71	4.1	4.1	0.0%	136	137	0.7%	1.19	1.18		-0.8%	105	102	-2.9%
72	3.6	3.6	0.0%	146	147	0.7%	1.34	1.32		-1.5%	111	109	-1.8%
73	6.3	6.3	0.0%	143	143	0.0%	1.04	1.04		0.0%	107	104	-2.8%
74	4.0	4.1	2.5%	139	143	2.9%	1.26	1.24		-1.6%	110	107	-2.7%
75	3.6	3.6	0.0%	142	145	2.1%	1.15	1.14		-0.9%	104	101	-2.9%
76	4.6	4.7	2.2%	141	142	0.7%	1.08	1.06		-1.9%	107	106	-0.9%

77	4.4	4.5	2.3%	140	142	1.4%	1.22	1.19		-2.5%	109	106	-2.8%
78	2.8	2.8	0.0%	149	150	0.7%	1.12	1.10		-1.8%	110	107	-2.7%
79	3.8	3.7	-2.6%	142	143	0.7%	1.15	1.14		-0.9%	113	111	-1.8%
80	4.4	4.4	0.0%	142	140	-1.4%	1.00	1.02		2.0%	122	119	-2.5%
81	4.2	4.3	2.4%	141	141	0.0%	1.05	1.09		3.8%	115	113	-1.7%
82	3.3	3.3	0.0%	145	146	0.7%	1.47	1.43		-2.7%	109	108	-0.9%
83	3.8	3.9	2.6%	141	142	0.7%	1.18	1.20		1.7%	101	99	-2.0%
84	4.5	4.5	0.0%	142	143	0.7%	1.06	1.10		3.8%	103	103	0.0%
85	3.8	3.9	2.6%	150	153	2.0%	1.06	1.10		3.8%	99	99	0.0%
86	3.1	3.1	0.0%	139	140	0.7%	1.23	1.20		-2.4%	100	99	-1.0%
87	4.6	4.6	0.0%	138	138	0.0%	1.05	1.04		-1.0%	122	119	-2.5%
88	4.0	4.1	2.5%	145	146	0.7%	1.10	1.10		0.0%	106	103	-2.8%
89	4.1	4.0	-2.4%	142	144	1.4%	1.02	1.05		2.9%	105	103	-1.9%
90	3.7	3.7	0.0%	143	144	0.7%	1.11	1.12		0.9%	110	109	-0.9%
91	4.2	4.3	2.4%	141	143	1.4%	0.97	0.96	-0.01		118	115	-2.5%
92	4.0	4.0	0.0%	136	135	-0.7%	1.15	1.16		0.9%	112	110	-1.8%
93	3.9	4.0	2.6%	140	140	0.0%	1.11	1.12		0.9%	115	113	-1.7%
94	4.2	4.3	2.4%	146	148	1.4%	1.15	1.14		-0.9%	108	108	0.0%
95	3.9	3.8	-2.6%	155	158	1.9%	1.03	1.08		4.9%	115	112	-2.6%
96	4.0	4.1	2.5%	143	144	0.7%	1.08	1.10		1.9%	95	95	0.0%
97	3.9	3.9	0.0%	154	156	1.3%	1.14	1.16		1.8%	118	115	-2.5%
98	3.9	4.0	2.6%	134	135	0.7%	1.01	1.01		0.0%	104	102	-1.9%
99	3.6	3.6	0.0%	147	149	1.4%	0.89	0.88	-0.01		108	109	0.9%
100	3.9	3.9	0.0%	156	158	1.3%	1.04	1.08		3.8%	83	85	2.4%

ID	Glu			Lac				Hct			
	ABL90	EN102	Rel. Dev.	ABL90	EN102	Abs. Dev.	Rel. Dev.	ABL90	EN102	Abs. Dev.	Rel. Dev.
1	14.1	13.6	-3.5%	1.5	1.66	0.16		12.3	15	2.70	
2	12.1	12.2	0.8%	2.8	3.05	0.25		43.0	49	6.00	
3	10.5	9.7	-7.6%	2.8	2.46	-0.34		24.0	24	0.00	
4	16.5	16.0	-3.0%	1.9	1.81	-0.09		19.6	15	-4.60	
5	10.6	9.9	-6.6%	1.7	1.32	-0.38		31.8	37	5.20	
6	14.1	14.3	1.4%	1.6	1.90	0.30		20.0	21	1.00	
7	20.7	19.8	-4.3%	1.9	1.39	-0.51		28.9	28	-0.90	
8	4.7	4.8	2.1%	1.5	1.39	-0.11		21.2	20	-1.20	
9	6.7	6.3	-6.0%	1.8	1.28	-0.52		50.2	51		1.6%
10	20.8	20.4	-1.9%	3.7	3.73	0.03		25.8	20	-5.80	
11	10.8	9.9	-8.3%	3.0	3.14	0.14		20.3	22	1.70	
12	7.1	6.6	-7.0%	6.0	5.91		-1.5%	20.6	26	5.40	
13	6.2	6.2	0.0%	1.2	1.20	0.00		27.1	29	1.90	
14	7.2	7.8	8.3%	2.0	1.70	-0.30		32.2	35	2.80	

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15	8.6	9.0	4.7%	5.4	5.61		3.9%	34.3	31	-3.30	
16	7.1	7.5	5.6%	1.8	1.61	-0.19		30.3	36	5.70	
17	9.1	9.6	5.5%	1.3	1.41	0.11		22.6	19	-3.60	
18	16.5	15.2	-7.9%	1.1	1.36	0.26		19.2	21	1.80	
19	8.1	8.1	0.0%	1.0	1.20	0.20		36.0	34	-2.00	
20	5.5	5.8	5.5%	1.8	1.46	-0.34		35.7	38	2.30	
21	5.7	6.0	5.3%	2.8	3.05	0.25		43.2	42	-1.20	
22	9.6	10.1	5.2%	0.8	1.35	0.55		19.9	25	5.10	
23	12.3	12.6	2.4%	1.3	1.48	0.18		19.6	16	-3.60	
24	3.8	4.6		2.5	2.21	-0.29		24.9	24	-0.90	
25	8.6	8.9	3.5%	0.5	0.90	0.40		28.9	23	-5.90	
26	9.3	9.7	4.3%	1.4	0.98	-0.42		31.8	33	1.20	
27	8.5	9.1	7.1%	1.3	1.00	-0.30		25.6	29	3.40	
28	15.0	15.1	0.7%	1.8	1.45	-0.35		19.2	24	4.80	
29	7.7	8.2	6.5%	0.5	0.95	0.45		28.6	33	4.40	
30	9.3	8.9	-4.3%	1.0	0.96	-0.04		37.8	40	2.20	
31	9.4	9.4	0.0%	2.3	2.35	0.05		24.7	26	1.30	
32	10.6	10.9	2.8%	0.6	1.10	0.50		36.2	35	-1.20	
33	8.3	8.5	2.4%	1.0	1.18	0.18		35.2	38	2.80	
34	9.3	9.0	-3.2%	2.5	2.00	-0.50		19.9	16	-3.90	
35	7.7	7.6	-1.3%	2.7	2.52	-0.18		15.2	18	2.80	
36	11.1	11.7	5.4%	2.0	2.16	0.16		32.3	34	1.70	
37	7.7	7.9	2.6%	1.5	1.69	0.19		24.7	22	-2.70	
38	6.3	6.8	7.9%	1.3	1.28	-0.02		18.2	23	4.80	
39	5.2	5.6	7.7%	2.0	2.08	0.08		27.0	31	4.00	
40	16.0	15.8	-1.3%	1.3	1.08	-0.22		21.9	27	5.10	
41	8.5	8.9	4.7%	1.6	1.20	-0.40		21.9	22	0.10	
42	7.1	7.6	7.0%	0.8	1.15	0.35		28.7	34	5.30	
43	8.1	8.6	6.2%	0.9	0.96	0.06		43.5	42	-1.50	
44	7.5	8.2	9.3%	3.4	3.70	0.30		44.1	44	-0.10	
45	10.5	11.3	7.6%	1.3	1.26	-0.04		38.0	37	-1.00	
46	7.7	7.8	1.3%	1.2	1.26	0.06		42.3	41	-1.30	
47	10.5	11.2	6.7%	1.8	1.37	-0.43		36.7	39	2.30	
48	11.0	11.5	4.5%	1.0	1.08	0.08		45.8	50	4.20	
49	9.1	9.5	4.4%	7.0	7.10		1.4%	45.3	45	-0.30	
50	14.5	15.1	4.1%	0.9	1.07	0.17		19.0	16	-3.00	
51	7.5	8.2	9.3%	1.7	1.44	-0.26		13.1	15	1.90	
52	7.4	7.9	6.8%	2.0	2.04	0.04		27.0	29	2.00	
53	6.4	6.5	1.6%	1.1	1.09	-0.01		28.2	32	3.80	
54	6.7	6.6	-1.5%	1.4	1.10	-0.30		20.7	22	1.30	
55	6.2	6.3	1.6%	2.0	2.56	0.56		24.7	28	3.30	
56	12.8	13.9	8.6%	0.9	0.94	0.04		24.3	19	-5.30	

57	7.2	7.8	8.3%	1.9	2.48	0.58		67.4	67		-0.6%
58	15.6	15.6	0.0%	1.2	1.36	0.16		35.2	30	-5.20	
59	11.9	11.7	-1.7%	1.0	1.01	0.01		36.8	36	-0.80	
60	8.8	8.7	-1.1%	1.0	1.11	0.11		27.4	32	4.60	
61	7.9	8.1	2.5%	1.7	1.57	-0.13		40.0	45	5.00	
62	11.4	11.4	0.0%	0.8	1.12	0.32		24.1	23	-1.10	
63	9.7	10.0	3.1%	1.7	1.67	-0.03		21.2	25	3.80	
64	9.1	9.3	2.2%	1.1	1.66	0.56		31.1	29	-2.10	
65	14.3	13.3	-7.0%	1.6	1.20	-0.40		27.9	30	2.10	
66	7.0	7.0	0.0%	2.3	2.04	-0.26		15.0	18	3.00	
67	11.1	11.1	0.0%	1.9	1.33	-0.57		41.4	46	4.60	
68	8.0	8.5	6.3%	0.8	1.03	0.23		30.5	31	0.50	
69	12.9	13.2	2.3%	2.9	3.06	0.16		47.2	44	-3.20	
70	7.5	8.2	9.3%	6.1	6.61		8.4%	24.1	24	-0.10	
71	7.9	8.0	1.3%	3.4	3.30	-0.10		44.6	42	-2.60	
72	8.4	8.6	2.4%	1.6	1.26	-0.34		20.5	21	0.50	
73	8.0	8.3	3.8%	2.9	2.75	-0.15		40.3	39	-1.30	
74	7.9	8.5	7.6%	1.4	1.09	-0.31		26.3	26	-0.30	
75	6.5	6.9	6.2%	1.8	1.99	0.19		26.3	21	-5.30	
76	9.9	10.5	6.1%	1.0	1.18	0.18		23.0	23	0.00	
77	19.4	20.8	7.2%	0.6	1.01	0.41		42.4	42	-0.40	
78	12.8	12.6	-1.6%	2.5	2.22	-0.28		33.7	33	-0.70	
79	7.4	7.4	0.0%	1.1	1.03	-0.07		14.6	17	2.40	
80	30.0	30.4	1.3%	1.7	1.31	-0.39		23.6	26	2.40	
81	7.1	7.3	2.8%	1.4	1.23	-0.17		33.4	39	5.60	
82	22.4	23.2	3.6%	0.7	1.28	0.58		39.3	37	-2.30	
83	10.8	11.1	2.8%	2.9	3.22	0.32		19.5	20	0.50	
84	7.1	7.3	2.8%	1.0	1.34	0.34		24.0	22	-2.00	
85	11.2	10.7	-4.5%	8.0	8.22		2.8%	19.9	19	-0.90	
86	7.7	8.3	7.8%	1.3	1.17	-0.13		23.7	28	4.30	
87	6.6	6.7	1.5%	1.1	1.42	0.32		41.7	40	-1.70	
88	9.4	9.8	4.3%	2.4	2.43	0.03		27.8	28	0.20	
89	13.6	13.9	2.2%	1.6	1.41	-0.19		23.6	23	-0.60	
90	16.5	16.5	0.0%	2.4	2.58	0.18		20.2	19	-1.20	
91	21.3	23.0	8.0%	1.3	1.20	-0.10		18.6	22	3.40	
92	12.2	12.8	4.9%	1.6	1.29	-0.31		24.7	27	2.30	
93	13.0	13.0	0.0%	1.8	2.29	0.49		18.6	18	-0.60	
94	11.0	11.4	3.6%	0.9	0.87	-0.03		18.6	24	5.40	
95	8.5	8.8	3.5%	1.0	1.55	0.55		14.5	16	1.50	
96	14.9	14.9	0.0%	1.6	1.72	0.12		44.4	43	-1.40	
97	9.3	9.3	0.0%	1.5	1.71	0.21		19.8	19	-0.80	
98	9.7	9.9	2.1%	2.1	2.16	0.06		19.1	19	-0.10	

99	7.6	8.2	7.9%	1.0	1.49	0.49		38.0	34	-4.00	
100	12.3	12.2	-0.8%	2.4	2.32	-0.08		29.0	30	1.00	

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