

November 22, 1940

My dear Taylor,

Thanks for your letter. I am enclosing analysis of the 15 sets of protocols you published, in which they are properly scored, using the θ where observed. The analysis is now rather better behaved than it was when θ 's were omitted; still, it is clear that, using cells of such different types, one does not get the full precision of which the titration method is capable when similar ^{cells} ~~cells~~ are used, but about 58% of that precision.

The other titrations, so far as I looked at them, do seem to show more signs of an α_1 difference, though also they show in places such great irregularity as in the two sera from Dundee, which, if so, will prevent any real α_1 effect from showing itself significantly.

Yours sincerely,

15 sets of published protocols with ? added

Reanalysed Nov. 1940

	A_1	A_2	A_1B	A_2B	T	A_1-A_2	O-B	Inter- action
1	6.57	5.38	6.22	2.72	20.89	4.69	3.01	2.31
2	6.22	4.56	6.03	2.72	19.53	4.97	2.03	1.65
3	6.10	3.56	5.91	2.57	18.14	5.88	1.18	.80
4	5.57	3.41	4.72	1.10	14.80	5.78	3.16	1.46
5	6.56	3.56	4.81	1.10	16.03	6.71	4.21	.71
6	6.22	4.10	5.37	1.76	17.45	5.73	3.19	1.49
7	6.03	2.22	4.91	1.03	14.19	7.69	2.31	.07
8	5.37	2.57	4.72	1.72	14.38	5.80	1.50	.20
9	5.10	3.37	4.72	0.91	14.10	5.54	2.84	2.08
10	6.72	4.38	5.50	3.25	19.85	4.59	2.35	-.09
11	8.03	5.84	7.03	3.76	24.66	5.46	3.08	1.08
12	6.10	3.76	5.10	0.95	15.91	6.49	3.81	1.81
13	5.69	3.03	4.22	1.22	14.16	5.66	3.28	.34
14	6.37	4.57	5.57	3.03	19.54	4.34	2.34	.74
15	5.91	3.72	5.37	0.57	15.57	6.99	3.69	2.61
Total	92.56	58.03	80.20	28.41	259.20	86.32	41.98	17.26
Mean					17.28	5.7546	2.7986	1.1506
Sum of squares of deviations from mean)					135.3588	11.9928	9.9980	9.9911

	d/f	S.S.	M.S.
Sera strength	14	33.8397	2.4171
1-2	14	2.9982)	
O-B	14	2.4995)	.19037
interaction	14	2.4978)	

A_1-A_2	2.877 ± .113
O - B	1.399 ± .113
$A_1+A_2B-A_2-A_1B$.575 ± .113