

As it seemed probable that the low counts might be due to the prolonged heating at 70° C, in the next and in all subsequent work the suspensions were heated to 70° C for 20 minutes only. The counts so obtained were much higher; but that may be due in part at least to a change in the way of counting, for in the first series colonies growing at a depth in the agar had not been counted, they differed in appearance from those on the surface and it was feared that the culture was not pure.

<i>B. anth.</i> in poison	25 ml.	1	2	3	4	5	6	7	hours
1.0% ph. + 5% NaCl (2.6)	153		75	130	55	57	77	104	49 colonies
3.0% phenol	182		174	101	88	97	89	75	56 colonies
3.5% phenol	195		125	40	87	83	36	36	colonies
2.5% ph. + 5% NaCl (3.6)	78		103	103	35	35	31	39	48 colonies
1.0% ph. + 10% NaCl (3.0)	137		118	60	21	45	25	11	21 colonies
4.0% phenol	103		107	118	44	30	50	35	25 colonies
2.5% ph. + 10% NaCl (5)	72		49	3	5	1	0	1	0 colonies

In the third series the suspension was thoroughly centrifuged after heating:

<i>B. anth.</i> in poison	20 ml.	1	2	3	4	5	6	7	8	hours
1.0% ph. + 5% NaCl (2.6)	142		134	114	84	46	18	13	23	0 colonies
3.0% phenol	124		81	109	73	34	15	18	17	9 colonies
3.5% phenol	119		107	90	48	12	17	10	5	0 colonies
2.5% ph. + 5% NaCl (3.6)	145		154	90	112	15	15	14	10	3 colonies
1.0% ph. + 10% NaCl (3.0)	115		92	41	51	7	5	7	2	0 colonies
4.0% phenol	124		110	110	53	19	18	13	15	2 colonies
2.5% ph. + 10% NaCl (5)	78		52	9	5	0	0	0	0	0 colonies

The fourth set were carried out under the same conditions as the third; the temperature of the incubator varied from 37.5° C to 42° C.