

Mar. 1/45  
Hormay.

Exp (T) Effect PH on ger. @ continuous 66°F

	196	195	227	212	222	244	256	228	262	275	259	237														
Date	2	3	4	5	6	7	8	9	10	11	12	13														
Mar. 1	← into 66°F →																									
Mar 2	← no growth (germination) →																									
Mar 12	← no germination →																									
	Soaked in H <sub>2</sub> O @ 90°F 8 hours; washed 3 times. Then into 66°F 5 PM																									
Mar 13	12	0	0	0	0	0	0	0	0	0	0	0														
Mar 17 10AM	16	10 1/2	15 7 1/2	41	1/16	0	2 3/8	12 1/16	3/16	1 1/2	0	4 3/8	3/4	2	22 1/2	10	31	16	31	11	37	10	14	60	1	25
Mar 19 1PM	18	20	10	13	7	2	1	7	3	4	2	6	2	6	2	30	13	48	18	45	16	62	24	73	31	

and.

# Exp (T)

Budder Solutions  
Started March 1, 1970 66°F

Feb 28/45  
Hormay

Approx	Actual	Salt A 0.2M $\text{Na}_2\text{HPO}_4$ cc	Salt B 0.1M Citric Acid cc		
2	2.2	0.40	2.0	19.60	9.80
3	3.0	4.11	2.06	15.89	7.94
4	4.0	7.71	3.06	12.79	6.39
5	5.0	10.30	5.15	9.70	4.85
6	6.0	12.63	6.32	7.37	3.68
7	7.0	16.47	8.24	3.53	1.76
8	8.0	19.45	9.72	0.55	0.28

McIlvaine's standard  
Page 214 Determination of H ions  
by Clark 1948

		Glycocoll 20cc cc	NaOH 10cc cc	
9	8.93	9.0	1.0	18°C
10	10.14	6.0	4.0	
11	11.07	5.1	4.9	
12	12.10	4.5	5.5	
13	12.97	1.0	9.0	

Sørensen's glycocoll-NaCl-  
NaOH mixtures Page 206  
Clark  
Glycocoll 7.505 grs  
NaCl 5.85 "  
Per liter  
NaOH: 0.1N

50cc  
50cc

Molecular Wts

$\text{Na}_2\text{HPO}_4$   
Citric acid

147.05 0.2  
194.11 0.1

Amount needed

28.410 grams per liter 100cc  
19.411 " " "

Glycocoll  
 $\text{C}_6\text{H}_{11}(\text{NH}_2)\text{COOH}$

75.06

7.505

NaCl

5.85

NaOH

} per liter

Exp T Effect  $P_{H_2}$  on germination @ Continuous 66°F Britton 12-6-45

germination %



EUGENE DITZGEN CO. NO. 275