

4/22/70

N21

Name T. Brown, Lowry Protein Assay

Tube No.	Description of Sample	Sol. No.	Exp. No.	Dilution of Sample		Diluted Sample μ l.	Components of Reactions		
				H ₂ O μ l.	Sample μ l.		H ₂ O μ l.	0.4N NaOH μ l.	0.1M CuSO ₄ Reagent μ l.
1	Water	4945		150	0		50	1 ml	100 μ l
2	Water	4945		150	↓		↓	↓	↓
3	Water	4945		150	↓		↓	↓	↓
4	5 μ g. Albumin std.	4531		145 150	5	50	50	1 ml	100 μ l
5	10 μ g. Albumin std.	4531		140 150	10	50	50		
6	15 μ g. Albumin std.	4531		135 150	15	50	50		
7	20 μ g. Albumin std.	4531		130 150	20	50	50		
8	PBS (Lot # 900917, 3/18/70, N.I.H. Media).						50 50		
9						5	50		
10						10	50		
11						15	50		
12						20	50		
13	Newellbanta N21, 6.81 x 10 ⁵ / ml in PBS						50 50		
14						5	50		
15						10	50		
						15	50		
						20	50		

Tube No.	A 750	Protein Assayed per μ l. of diluted sample	Protein Content of undiluted sample	Comment
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Name	Date	Cluette Check with H ₂ O	Reagents Used	Sol. #
Cuvette No. A 750			① Albumin Standard	4531
2		- 0.006	② Folin Reagent	
3		+ 0.001	③ Alkaline Copper Pot.	
4		+ 0.002	④ 2% Na ₂ CO ₃ in 0.2N NaOH	
			⑤ 2.0% Na Tartrate pH 6.0	
			⑥ 1% CuSO ₄ · 5H ₂ O	
			⑦ 0.4N NaOH	
µl of unknown per Reaction				
	5	10	20	25
		15	30	30
0.6				
0.5				
0.4				
A 750 mμ				
0.3				
0.2				
0.1				
0				
	5	10	20	25
		15	30	30
µg Albumin Standard Protein per Reaction				