Attempt to detect Transfer of C^{14} from C^{14} labeled "RNA" to Protein 7/17

Preparation of C^{14} labeled RNA

Trial Run	1	2	3	4	5	6
Cacodylate pH 7 1M	0.02					
.15M $MgCl_2$	0.01					
ATP 0.01	0.02					
C^{14}AA 4.5×10^7/ml	0.02					
H_2O	.23	.38	33	.23	.23	.23
pH 4.6 enz 6/25	0.2	0.05	0.10	0.20	0.20	0.20
Time at 30°	0'	10'	10'	10'	15'	20
2' ct	41	4278	7945	15,354	15,662	15,982
1' ct	21	2134	5978	7677	7831	7991
Δ Total	-	4236	7914	15,312	15,620	15,940

Large scale Run

1M Cacodylate	0.4
$MgCl_2$	0.2
ATP	0.4
C^{14} AA	0.4
pH 4.6 enz	10.5

Incub 20' at 30°. Added 1.2 ml 55% PCA. Spun in cold. Washed ppt 2x c̄ 25 ml 1% PCA. Suspended ppt in 5 ml cold H_2O. With stirring in ice added 1M KOH until solution began to clear pH ca 5.5. At pH 6.4 solution was fairly clear. Then added 0.015 ml KOH & pH went up to ca 8.5. I [illegible] brought back down to ca pH 7 c̄ 1M HCl. Spun [illegible] 2 ml of [illegible] material.

Sup was 5 ml (not quantitative transfer)

plated 2 0.01 ml aliquots
1) 878 } 832
2) 786 }

∴ 83,200 cpm/ml or total of 416,000

Transfer Exp.

	1	2	3	4	5	6	7	8	9	10	11
Tris M/2 pH 7.3	0.05										
0.1 M $MgCl_2$	0.01										
0.2 M $MnCl_2$	0.01										
ATP 0.1 M	0.02	.02	.02	.02	.02						.02
hyped Protoplast pellet E VI (24 hrs)	.05										—
C^{14} labeled RNA	0.4	→									
H_2O						.02	.02	.02	.02	.02	.05
Time at 30°	0'	20'	40'	20'	40'	0'	20'	40'	20'	40'	40'

Rx stopped by adding 0.5 ml 10% cold TCA.
Tubes # 1, 2, 3, 6, 7, 8 were washed 2x c̄ 2.5 ml cold 10% PCA. Dissolved in 1 ml NH_4OH & plated 0.5 ml
Tubes # 4, 5, 9, 10 & 11 were washed 2x c̄ 10% PCA then extracted c̄ ca 2 ml 5% TCA at 100° for 15'. Spun washed 1x c̄ 10% TCA & then dissolved & plated as above.

Time	cold	cold	cold	hot	hot	cold	cold	cold	hot	hot	hot
2' at	22,184	14,985	14,041	232	226	18,900	10,010	4233	231	204	147

Doesn't look like there is an transfer of the radioactivity from ~~cold~~ hot PCA soluble to hot PCA insoluble (protein).