

Assay of RNA-P preps

8/17

PB reagents

	①	②	③	④	⑤	6	7	8	9	10
Assay Mix ✓	0.02 →									
dATP (PM) 1mM ✓	0.02 →					.02	.02	-	-	-
dAT (PB) 1mM ✓	-							.02	.02	
CGU 4μg/μl ✓	0.01 →									
³ H-ATP 22113 cpm/mole ✓	.01 →									
H ₂ O ✓	.04	.03	.02	.03	.02					
Polym II GG1 B 1:100 ✓	-	.02	.02							
GG1 A 1:100 ✓	-			.01	.02					
Polym S13 1:250 ✓						.02	.02	.01	.02	
cpm	26	969	1866	691	1240	465	561	798	1492	
Δ	-	943	1840	665	1214	439	535	772	1466	

MC reagents

	①	④	②
Assay Mix ✓	0.02 →		
dATP 25mM ✓	0.01 →		
UTP 4mM ✓	0.01 →		
³ H-ATP 4mM ✓	0.01 →		
H ₂ O ✓	0.05	.04	.03
Polym S13 1:250 ✓	-	.01	.02
cpm	45	1516	2923
Δ	-	1471	2878
mole		0.26	0.51

5600 cpm/mole

Micro fractionator
Complete prep

8/17

	①	②	③	④	⑤	⑥	⑦
√ Assay Mix (PB)	.02						
√ dAT(PB) 700/μl	.02	.02	.02	.02	.02	.02	.02
√ dAT(MC) 1200μl	-						
√ C,G,U 4μl/μl	.01						
√ ³ H-ATP 2200 ³ /μmole	.01						
H ₂ O	.04	.03	.02	.03	.02	.03	.02
Poly GG-1 B 1:100	-	.01	.02				
GG-1 A	-			.01	.02		
Poly 5/13 1:250	-					.01	.02
cpm	32	1619	3517	1110	2365	769	1760
Δ	-	1587	3585	1078	2333	737	1728
made		.72	.6	.49	1.10	.335	.785
units/μl		43,200	48,000	29,350	33,000	50,200	58,900
			11,700		12,000		11,600
	⑧	⑨	⑩	⑪	⑫	⑬	⑭

10³37°

Same as above
except 2 MC dAT

cpm	67	2026	4221	1311	2531	910	1867
Δ	-	1989	4154	1244	2464	843	1800
made		.905	1.89	.57	1.12	.38	.82
units/μl		54,300	56,700	34,200	33,600	51,000	61,500
			14,200		13,100		12,600

Make new diluent

All preps OK = good d,AT

Assay of REA-P preps

8/19

	1	2	3	4	5	6	7	8	9	10
Cocktail Mix ✓	.02 →									
dATMC 1.2mM ✓	.02 →							-	-	-
C, G, U mix 4x added ✓	.01 →									
H-ATP 4x added ✓	.01 →									
H ₂ O ✓	.04	.03	.02	-	.03	.02	-	.04	.04	.04
Poly GG 1-A d. 1:100	-	.01	.02	.04				.02	.02	.02
" " 1-B "	-				.01	.02	.04			
		10' 37"						0'	20'	20'
cpm	17	378	1230	1793	876	1582	2938	18	13	12
Δ		361	1213	1766	859	1565	2921			
μg/ml		.164	.552	.803	.390	.713	1.33			
u/ml		9840	16600	12100	23400	21400	20000			
		12880	Q=4950		21600	Q=5540				

Trial Run = SU40 DNA

	1	2	3	4	5	6
Cocktail ✓	0.04 →					
SU40 DNA fraction ✓	0.03 →				.03	-
dAT (MC) 1.2mM ✓	-	-	-	-	.04	.04
C, G, U mix ✓	0.02 →					
H-ATP ✓	0.02 →					
H ₂ O ✓	0.04	0.04 →			-	.03
Poly GG 1-B 1:50	-	.05 →				
		10'	30'	60'	10'	10'
cpm:	26	432	686	918	7644	13,222
cpm in prep room Mark II						9206
Δ		400	600	892	7618	13136
μg/ml		.185	.30	.406	3.46	2.00
u/ml		1110	600	406	20800	36000

10/10/60