

3-31-69 SU40 prep.

BSC-1 cells

SU40 str 777

Grown by Elihu in 1968 + stored frozen
p max CPE + scraping of cells f. plates

A. 800 ml - Cent at 30,000 rpm in #30 Spinco rotor - 2 hrs.

B. 800 ml treated in ice bath \bar{c} $\frac{1}{3}$ vol. of abs MeOH \bar{c} stirring. stirring continued for 45' + cent. at 8000 rpm in large Sewall rotor for 30'. Super poured off + stored overnight to check for more ppt.

Each ppt resuspended in few ml high speed Super (A) or Tris .05 M pH 7.4. (B).

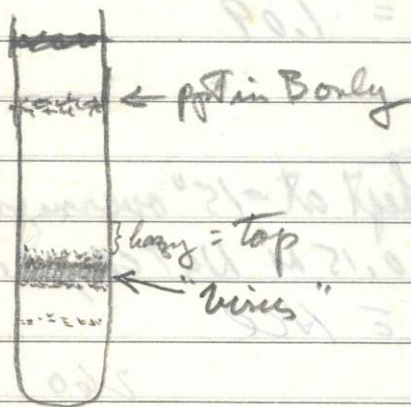
+ incubated at 37° for 30' \bar{c} 0.01% trypsin + 1% DOC.

Cent. at 10,000 x 30' + super at 30,000 rpm for 3 hrs.

Pellet, ^{left in CsCl for 2 days at 40° +} homogenized in CsCl $\rho = 1.30$ g/ml + cent in #40 rotor at 40,000 rpm for 20 hrs. (Tris pH 8.5 0.01 M)

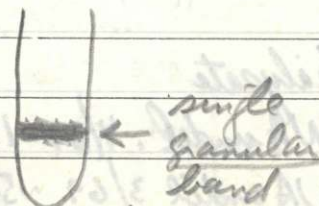
4-5-69

A.
+ B.



Each "virus" band collected in SW39 tube + made up to vol. \bar{c} CsCl $\rho = 1.31$. Top fr. A+B combined for 3rd tube

2nd spin:



Top \rightarrow not collected, too little

A+B combined + dialyzed against .01 M Tris
 pH 7.9, EDTA .002 M.

4-8 DNA prep

1.5 ml virus sol'n (cloudy) + 0.15 ml NaTCA
 + 0.15 ml EDTA 0.1 M pH 5.4
 { Then equal vol 90% phenol (phenol + 1/10 vol
 0.5 M Tris pH 7.9) }
 To decrease conc. virus (as per EW)
 3.5 ml water cont. 1/10 vol EDTA + 1/10 vol NaTCA
 + 3.5 ml phenol & Tris added.

Entire mix agitated for 15' at room Temp
 Cent at 9000 rpm in Bevall x 15'

~~Aqueous + wash~~ ~~pp dialyzed ag. 1/10 SSC~~
 Too much ppt at interface. ∴ Add more
 of aq. sol'n + 8 ml phenol-tris added +
 suspension re-agitated 10'. Cent in plastic
 tubes at 14000 rpm x 15'

Super + 1 wash dial ag 1/10 SSC x 3

Vol of DNA sol'n = 16 ml

	230	260	280 nm
dialysate	.045	.002	.002
DNA undil.	.640	.068	.043

O.D. units = .068 x 16 = 1.09

Yield very low!

Re-extract phenol residue (left at -15° overnight)

∓ equal vol. 0.15 M NaCl, 0.15 M NaTCA, 0.025 M Tris 7.9
 0.01 M EDTA, adj. to pH 7.9 ∓ HCl

		260	280		260	280
dialysate						
DNA undil.	4/69 15.2	1.42	.94	1:10	.145	.110
DNA undil.	3/69 ~5.5 ml	.97	.65			