Dialgais ~ 114 mm CAIL in PBS 1:2 dilution of 228 mm LAIT stock up PBS Buller in Maxi size D-tube dialyzer 4.c (coldworn) O/N. -> Need to check purity from spolier! 2011 Apr 27 9.36 m Pilters dealysin buffer Plate Deletel I me proggad poten wel I mil fether dulying befor to when SOMM puter other Deletet (1:4) 25 per of poten she ato 75 pt peters delyn befor J A20 = 0.71549 AU is south poten who is actually to 57,2 µM by year 2.1 / 10 /m / 10 ml X 10° mx 52.7 mm x mx Added 1.467 ML of ST.ZMM pute ali to 0.633 ML faffer to make - 2. I in L of ~ 40 MM poten och.

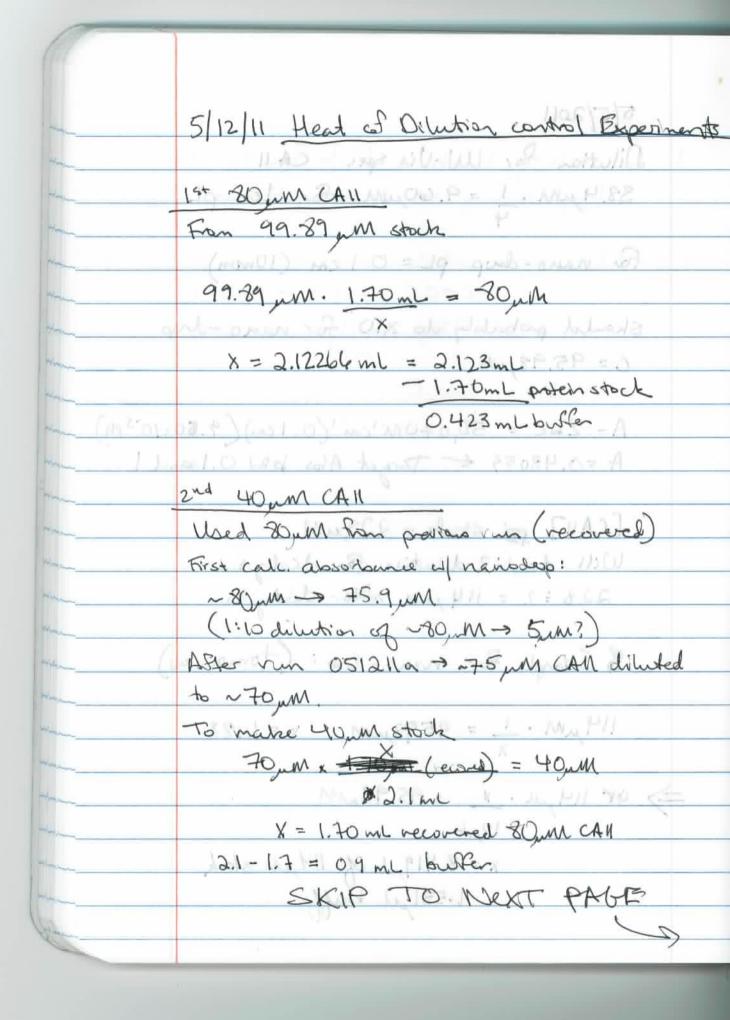
Actual A = 0.43059 for 1:4 dilution of ~ 40 M A= 2600 0.47059 x 4 x 103 x 102 ; 378.4 mm 50,070 Micmi (cm) Friday a 2PM (ruthy - Bran) ITC [cas] 1782 MM [(40) 40 pm 2 wef = 50,070 Mil cmi! Made 1:2 dilution of O/N dielysis grotan Stack (~228, m). A=071549 4 x103 x103 = 57.2 mm 57.2 m. X = 40 mm x=1.467 mL 4 57.2 2.1ml -21 O. 633mL buller

Measurd A of a Moun solution: A : 0.48059 C= 6.48059 . 4 . 103.103 = 38.4 mM 501270 m = 1 (cm) protein Be (CBS) MM 2 1.783 MW = 201.2 glast VOI = 10~L #526 0.010L . 1.783x10 m.1 . 201.25 = 0.0036g Arhally measured 0.0034g CBI 3.4 mg = 3.6 mg X = 9.478 ml PBS X 10 butter butter Note CBS was tog Static - some stude to weighing paper so had to ringe off w/ buffer. CBS, & 272mm = 1500 m 'cm-" 1307 M-1 an-1 (+126) 4 dilution of ~1-783mM stock
A = 0,63718 a) 272nm - although 274nm looks 1 max 0.63713 . 4 . 103 = 1.950 mm / achal CBS Concertration 1307 (1)

*No control injection Run 1: instead moved plunger [CAII] MANN = 38.4 down position once x 10 ul [CBS] mM : 1.783 # injects = 10 pt Vol injects = 10 ml Name = 042711a , saved in DATA/ Chodera run File saved as 10 pl. 40, M Run 2: A= 6.48673 . 4 x10° x103 = 38.9 mm 50,090 m'cm'(cm) [CAIL] = 38.9 mm [CBS] = 1.783 mm * mjects = 15 VOI might = 6.7 jul. nane = 0427116 Run 3: Heat of dilution for vun # 2, Same egarams name d= 042711c * Stopped a 3 pt # 5 b/c of buseline shift after pt # 2

	made 1:2 dilution -/ all remaining protein from dialysis
57	2,40. 0,900 mL = 40, m + 60, L . 52, m: 40h
	X' X
	X = 1.287 x = 85.5 - 900 prodeh stock - 60
	- 900 proden stock - 60
	0.387 buster 25.5 pl buster
	to call of the property of the first will do the
1	Run #4
1	Repeat heat of dilution w/ Run#2
7	garams.
	Womed = 042711d
	the state of the s
la la	Run #5 Ron out of protein
	[CATI] 240,000 added 80 pl, took
	[CB8] = 1.783mm Abs after w/ letterer
	# injects = 20 (= 0.39232 . 4
	Vol inject = Spl 50,070 (14)
	name = 042711e x 103 x 103
	[CAU]-31.4 mm
	There was a bubble in the cell, happened
	during buding and direction of sample Outr
	from this run isn't any good. Weed to
	repent.
	,

5/5/2011 July:0 % Last 11/5/12 Dilution for W-Vis spec CAII 38.4 mm. 1 = 9.60 mm. For 1 cm pL For nano-drop pL = O. I cm (10mm) Mary at Lungar Allen Should probably do XIO for nano-drop C = 95.98 july 11.5 = JAM JUST . 6 = 8 ... A- ELC = 50,070 m'cm'(0.1cm) (9.80×10-5 m) A = 0.48059 & Target Abs bow O. I and I [CAII] pa stock = 228 mM Will: do 1:2 delution For dialys >. 228 = 2 = 114 pm ofter dudy 3 Sample Por mano-drop: (tomorrow) 114 mm · 1 = 95,98 mm X = 1.188 > 9x 114, 11 . x = 95.98 mm IAS AM CITIONS Jun Of 1 = X x = 8.419, 1 of 114, m stock



At Had to degree poster sample 2x was very bulbly Run name 05/2/16 Sumo params as previous = 3rd Rua CAH (10 mm) 20 x Sul injections, 44 pulm UBS - Follow-up to experiments on 5/6/11 Used ~80 mm CAM recard stock again -> 70 mm. X = Dum 2.1ml y = 0.3 ml stock protein 1.8 ml PBS Degased again Saved as 05/2/10

5/19/11 Finish 20 x Sul injections 1st 20 x 5 mL CBS into PBS buffer 300s deday 240s sparing Used 44bur CBS from 5/12/11 Saved as O51911a 2nd 20 x 5 ml CBS who 210 mm CAII Sume as about refilled syringe w/ ~ 150 ul remaining CBS degressed in small curette be simply among springe position back to "closed" -> purged twice, long down injection baved as 051911b 3rd 20 x 5pl buster into ~10 pm CA/1 Same as above Duffer to all (see following page) Sould as 0519No

Be Protein stock from dialysis D/N - check concentration w/ hand-drop it filter & stone baker (dialysis #3now) · Check 1 10 mm (All stocks by nano-drap Make another 10 mm stock from 80 mm CAII recovered & (Same as previous) for buffer Into protein run ~70 m CAII . x = 10 mm X=0.3mL CAIL & STOCK The last the of 1.8 ml PBS buffer are just add to previous ~ [Oum CAII stick) ~70 mm. 0.175 ml = 10 mm - X = 1.225ml total added to 1,050 ml buffer - 2ml of 10 pm CALL Stock from 5/12/11

Protein for run #3, 051911c. Had ~ 1.5ml of 80.7 mm stock (abs to load needed ~ 2.1 ml - 2.1-1.5 = 0.6 8.07 mm. 1.5ml = 5.76 mm MI Of ... 2.1m L that's at the lower end; to thousever buffer was added to "top off" the cell after protein solution was loaded somewhere bother the two. * Can back calalate after run is finished b/c no CBS present Alos was 0.337 for sample tuben after the titration had finished

Strited of 1.43ml of (CAII) at unknown concentration. Di Whed by 100,1 of buffer during the course of theoton. [CAII] = 6.7,3 m 6.73 mx 1.53 mL = 7.20 mm = [CAII] Starting [CAA) was 7.20 um prior to titation u/ buffer.