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May 2020

LabChemistry_IS2_20160330_Camera2_Seg06.pdf

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Participants: IS2 (individual with microphone), S1 (female, long brown hair), S2 (male, short black hair), S3 (female, not visible), S4 (female, black head scarf), S5 (male, black hair), S6 (female, strong accent), S7 (female, not visible), S8 (female, link headdress), S9 (female, black hair), S10 (male, not visible), S11 (female researcher, behind camera), S12 (male, dark skin, nasally voice), S13 (male, no lab clothes, black sweater), S14 (female, long black hair), S15 (female, long black hair with brown streaks), S16 (female, not visible), S17 (female, not visible), S18 (female, not visible), S19 (female, not visible)

Setting: Chemistry lab—IS2 assisting students in their experiments; camera restricted to one corner of lab, mic feed occasionally cuts out as indicated by ((unclear))

0:00

xxx IS2: ((walking))
xxx ((to S5)) you can use a (.) stirrer ((twirls finger in
xxx air))
xxx ((continues walking))
xxx S1: ((unclear)) not ((unclear)) enough
xxx right?=
xxx IS2: =yea
xxx S1: ((indistinguishable)) again
xxx IS2: add the fresh sodium carbonate,
xxx S1: ((nods))
xxx IS2: into the organic layer,
xxx ((unclear)) mix,
xxx ((unclear)) your separation.
xxx ((continues walking))
xxx S2: during the second time you funnel this
xxx can we use the same
xxx uh
xxx flask?=
xxx IS2: =no
xxx change [a new one
xxx S2 [(change to a-)
xxx IS2: if you have
xxx you can use a beaker too.
xxx S2: oh
xxx ok
xxx so:
xxx I just-
xxx uh-
xxx dried it.
xxx IS2: you dry it?
xxx S2: and then do I just pour it into a-
xxx do I just pour it (.) in
xxx to another (.) glass or should I-
xxx IS2: if you-if you can do that,
xxx yea=

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xxx S2: =OK
xxx IS2: you don't need to (fill),
xxx but uh:
xxx if you cannot
xxx uh:
xxx sure whether you can (got) some
xxx you know-
xxx S2: uh-huh
xxx IS2: (it's) uh:
xxx drying agent into a
xxx uh
xxx RBF=
xxx S2: =uh-huh
xxx IS2: normally
xxx you can filter with a
xxx filter paper,
xxx S2: (oh)
xxx IS2: ok?
xxx S2: ((indistinguishable))
xxx IS2: you could try.
xxx yea
xxx you can. ((unclear))
xxx S2: ((inaudible))
xxx IS2: so after you transfer into
xxx the (.2)
xxx I think the twenty-five right?
xxx S2: ((inaudible))
xxx IS2: is it clean?
xxx S2: uh
xxx I used it for like the first first step.
xxx ((unclear))
xxx ((inaudible))
xxx IS2: ok
xxx just wash with (acetone)
xxx ((stays and observes S2))
xxx and uh
xxx um: (.2)
xxx yep
xxx S2: and I can just pour it in=
xxx IS2: =so after
xxx after you finish the (lab)
xxx you need to transfer into the ((unclear))
xxx ok?
xxx so
xxx (basically) uh:
xxx yea
xxx transfer (to it now)
xxx and then you can rinse with your
xxx with flask-
xxx with uh
xxx extra uh:
xxx uh

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xxx ether,
xxx because you-
xxx because after you transfer into
xxx you still have some
xxx you know
xxx eth-
xxx uh
xxx ester in-i-i-inside your flask
xxx right?
xxx so just-
xxx S2: just wash it with some ester
xxx I mean-
xxx IS2: yea
xxx S2: ether=
xxx IS2: =and transfer it
xxx yes
xxx ((keeps walking))
3:00
COM so
COM when you- when you are separating two layers=
xxx S3: =mhm
COM IS2: uh
COM make sure to (.) get it out=
xxx S3: =mhm
xxx S4: ((raises hand))
xxx ((as IS2 approaches)) so
xxx I-I (had) the sodium bi-bicarbonate to the organic
xxx layer and ((unclear)) aqueous layer.
xxx do I put them both back in here?
xxx IS2: sure.
xxx this is uh sodium carbonate right?
xxx S4: (.) huh
xxx IS2: ooh
xxx uh
xxx ((points to her station)) what's this?
xxx S4: this is my aqueous layer.
xxx the water.=
xxx IS2: =ok
xxx just leave it one side,
xxx we don't (need) this anymore,
xxx S4: oh
xxx ok
xxx IS2: and ((lift flask and examines it))
xxx oh
xxx you-you already add the
xxx S4: ((nods)) sodium bicarbonate
xxx IS2: ok
xxx can you mix them?
xxx S4: yea
xxx I mixed it
xxx IS2: a lot?
xxx S4: yea

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xxx IS2: ((returns flask to station)) ok
xxx just transfer into this
xxx S4: uh-huh
xxx IS2: and still
xxx you got two layers
xxx right?
xxx S4: um
xxx no
xxx I separated the layers.
xxx IS2: (.) I mean ((reaches for flask again)
xxx you have organic inside this (flask)
xxx right?
xxx S4: ((nods)) yea
xxx organic
xxx IS2: sodium-sodium carbonate is (.) [water soluble
xxx S4: [oh:
xxx IS2: right?
xxx S4: oh
xxx so the sodium carbonate's gonna be the bin-
xxx uh (aqueous) and the organic?
xxx IS2: yea sure
xxx this is aqueous
xxx right?
xxx S4: yea
xxx IS2: and then you got two layers again,
xxx and you separate the organic layer=
xxx S4: =oh:=
xxx IS2: =because we-
xxx the reason why we the sodium carbonate because we want
xxx re-
xxx we want to do this to react with acid in the
xxx in the- in the organic layer=
xxx S4: =ok
xxx IS2: we can dry-
xxx we can
xxx you know-
xxx S4: take away the acid=
xxx IS2: =take away the aqueous-uh
xxx the acid
xxx from the organic layer to the aqueous layer.
xxx S4: (oh)
CLF IS2: then-
CLF so-
CLF I-
CLF hm: (.3)
xxx after you got the aqueous layer
xxx and uh:
xxx and organic layer
xxx and the a- uh
xxx do-do that again,
xxx add more sodium carbonate into the organic layer.
xxx S4: oh

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xxx so I just do the same thing again?
xxx IS2: so do the same thing again.
xxx fr- but
xxx use the fresh-fresh sodium carbonate,=
xxx S4: =yea
xxx IS2: but ma- until you check the pH for the aqueous layer.
xxx if the aqueous is basic.
xxx then you are done,
xxx you don't need to anymore.=
xxx S4: it's blue it's basic
xxx right?
xxx IS2: yes
xxx blue is ba- but it is not blue
xxx do it again
xxx do it again
xxx ok
xxx ((turns around))
xxx S5: ((while stirring flask)) uh
xxx do we add more ether each time we do the separation,
xxx or no?
TTF IS2: no
TTF I don't hav-
TTF you only had to-
TTF uh but
TTF uh
xxx if you think you are ether is not-
xxx because according to (a) manual
xxx so
xxx you have to keep the (.) volume of the ether at
xxx uh
xxx twenty-five mil
xxx right?=
xxx S5: =yea
xxx IS2: yea you can add a little bit more
xxx S5: ok
xxx IS2: ok
xxx S5: alright ((returns to station))
xxx IS2: ((continues walking))
xxx ((5:15-5:28 no dialogue))
xxx yes
xxx S2: ((indistinguishable))
xxx IS2: don't-don't
xxx uh
xxx wha-
xxx uh
xxx S2: uh
xxx I got a little bit of the magnesium in there
xxx IS2: uh:
xxx S2: ((unclear)) I filter it back into another (.) RbF
xxx or can I just leave it
xxx IS2: mm:?
xxx just leave it.

xxx doesn't matter.
xxx S2: (ok)
xxx IS2: uh
xxx yea
xxx S2: how long do I leave it for?
xxx IS2: not-
xxx S2: ((unclear))
TTF IS2: I think
TTF if
TTF I think jus- just
TTF uh:
TTF make-
TTF a-
TTF if-if you think the rest of the s-
TTF uh
TTF the thing (.) in the RbF can-
6:00
TTF you can transfer all of that into ten mil.
TTF just make sure that the total volume after you do the
TTF lab is less than ten,
TTF or around ten (.) mil,
xxx S2: ((nods))
xxx IS2: just by your judgment=
xxx S2: =ok
xxx IS2: ok
xxx S2: thank you
xxx ((looks at flask))
xxx (uh:)
xxx (twenty-four)
xxx IS2: so:
xxx yea
xxx a little bit more
xxx right?
xxx ((stands by S2 at a station in case of assistance))
xxx yea
xxx S2: ((turns knob on apparatus))
xxx IS2: ((points thumb to right)) make sure it is tightly
xxx uh
xxx pressed
xxx S2: (crank it up)
xxx IS2: it's good?
xxx S2: uh
xxx IS2: yea it's good.
xxx ((reaches into station and adjusts apparatus))
xxx S2: oh yea
xxx isn't it off
xxx like
xxx I don't hear the-
xxx IS2: yea
xxx what happened to the (this)?=
xxx S2: =I have no idea.
xxx IS2: uh:

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xxx let me- let me- let me- let me- let me
xxx S2: ((moves aside to let IS2 fix it))
xxx I-I don't think it's plugged in.
xxx ((points at adjacent machine))
xxx h-here
xxx y-you can use that one.
xxx ((attempts to troubleshoot machine))
xxx it's weird.
xxx S2: ((unclear))
xxx IS2: you'll just use that one
xxx ok?
xxx it's:
xxx ((7:45-8:47 no dialogue))
xxx ((re-plugs and continues to fix machine))
xxx S6: (can I just use this)=
xxx IS2: =no
xxx it doesn't work.=
xxx S6: =oh:
xxx IS2: just use that one.
xxx S6: ((nods))
xxx IS2: ((continues walking))
xxx S6: so
xxx uh
xxx for the (loading operation)
xxx before the- when it's bubbling
xxx so
xxx I can stop right?
xxx IS2: no.
9:00
xxx S6: ((laughs))
xxx IS2: so
xxx the thing
xxx the- oh
xxx uh:
xxx you need to:-
xxx uh:
xxx get the: th-th-th-the solvent out
xxx right?
xxx the ether out
xxx right?=
xxx S6: =yea
xxx IS2: so
xxx the thing is
xxx you need to make sure the volume of the total (.)
xxx uh::
xxx this
xxx uh
xxx is less than ten
xxx because you need to transfer this into the ten mil RbF.
xxx after you do that (in the back)
xxx S6: this is ten mil
xxx IS2: it's ten?

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xxx S6: yea=
xxx IS2: =oh my god
xxx S6: ((laughs))
xxx IS2: ok
xxx so um
xxx you don't need to
xxx uh:
xxx do the load-up for too long time,
xxx because next t- next week we need to do the-
xxx distillation,
xxx and distillation can-
xxx you know-
xxx get out of some (ether) too.
xxx so just make sure-
xxx maybe-
xxx half of them is ok.
xxx S6: ((nods)) ok
xxx IS2: ok
xxx S6: thank you
xxx IS2: ((continues walking))
xxx is it good?
xxx S7: yea
xxx I'm about to do my second extraction.
xxx IS2: uh
xxx you add the sodium carbonate?=
xxx S7: =yea=
xxx IS2: =ok
CLF have you check the pH
xxx S7: hm?
CLF IS2: ((louder)) have you check the pH
xxx S7: not yet
CLF IS2: oh you need to check the pH
CLF do you know that?
xxx S7: ((inaudible))
xxx IS2: ok
xxx so
xxx this is a second time
xxx right?
xxx S7: right
xxx IS2: so after you got the aqueous layer.
xxx check the aqueous layer.
xxx if it is acid,
xxx uh y-
xxx make sure it is basic.
xxx S7: ok
xxx IS2: ((unclear)) you don't need to do anymore.
xxx S7: ok
xxx IS2: ((continues walking))
xxx ((approaches student S8))
xxx ((unclear)) is there a final thin- final
xxx S8: this is it
xxx yea

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xxx IS2: ok
xxx S8: I'm trying to get
xxx like
xxx that out
xxx IS2: oh
xxx you have still a little bit
xxx right?
xxx S8: yea
xxx IS2: ((observes S8's work))
xxx S9: uh
XXX
xxx IS2: ((turns around)) yea
xxx oh
xxx what happened?
xxx this is stopper
xxx right?
xxx S9: ((smiles apologetically and nods))
xxx IS2: ok
xxx so do you have a extra stopper?
xxx if you have one-
xxx get a new one.
xxx but uh-
xxx before you leave the lab,
xxx ((points to back of lab)) you need to (.) go to the
xxx stockroom and tell them-
xxx S9: I broke one.=
xxx IS2: =yea
xxx you broke one and that you want to replace one,
xxx S9: ((nervous laugh))
xxx IS2: ((laughs))
xxx S9: I'm gonna replace one?
xxx IS2: ((laughs))
xxx S9: ((unclear))
xxx uh:
xxx ok
xxx IS2: ((laughs)) so
xxx yea ((unclear))
xxx S9: ((unclear)) buy this on Amazon ((unclear))
xxx IS2: ((unclear)) ((laughs)) ((unclear))
xxx oh:
xxx ok
xxx S9: ((inaudible))
xxx IS2: it's smart right?
xxx S9: it's uh- it's alright
xxx IS2: it's good?
xxx S9: it's not that bad.
xxx yea
xxx ((unclear))
xxx sorry
12:00
xxx IS2: so that's why you need to vent.

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xxx do you know what I mean?
xxx S9: yea!
xxx IS2: d-d-do-do you know ve-
xxx y-you vent
xxx S9: I did
xxx I-
xxx I'm shaking it
xxx and then (.) like
xxx I let go and ((unclear))
xxx it all happened so fast.
xxx IS2: vent every time.
xxx ((12:10-12:41 audio cuts out))
xxx IS2: Sodium carbonate (bites) for six time?=
xxx S10: =yea
xxx well no (.)
xxx like (.3) five.
xxx IS2: ((inaudible))
xxx ((pause))
xxx it's not like too basic right?
xxx S10: yea because (.1)
xxx yea so this is one two three
xxx fourth
xxx IS2: fourth-
xxx S10: fourth litmus=
xxx IS2: =you-you got the fresh
xxx ((13:01-14:00 audio cuts out frequently))
xxx S9: **sodium carbonate solution**↑
xxx IS2: [yes,
xxx S9: [to the
xxx in the flask?
xxx I forgot to mix it vigorously
xxx I just put it
xxx IS2: and do the (figure)
xxx right?
xxx S9: yea
xxx IS2: ok
xxx doesn't matter
xxx so (.)
xxx but uh ((incomprehensible))
xxx so (.) this is a first time right?
xxx S9: this is the second time=
xxx IS2: this second time-
xxx ((14:15-14:35 audio cuts out frequently))
xxx S9: so this has to be basic.
xxx IS2: yes.
xxx aqueous layer should be basic.
xxx S9: yea-I-I knew that.
xxx IS2: (bottom layer)
xxx ok?=
xxx S9: =mhm
xxx IS2: ok?

xxx S9: yea
xxx IS2: ((continues walking))
15:00
xxx IS2: is it good?
xxx huh?
xxx S11 it's almost the end
xxx IS2: so
xxx do you think it-uh
xxx it's good?
xxx I mean the (.)
xxx (review?)=
xxx S11: yea yea
xxx IS2: [yea?
xxx S11: [very good
xxx very good
xxx IS2: I think it's (.) good-better than
xxx the last time
xxx right?
xxx S11: yea
xxx cause um (.1)
xxx I don't know
xxx last time they weren't asking as many questions,
xxx and it was harder: (.) they were moving around more-
xxx IS2: ok=
xxx S11: =I think
xxx IS2: so
xxx uh
xxx what's your suggestion?
xxx about uh (.) about your
xxx uh (.)
xxx data?
xxx uh:
xxx collection?
xxx I mean
xxx uh (.1)
xxx how c-can I (.)
xxx ok
xxx S12: sorry
xxx IS2: yea-oh-oh it's-it's basic
xxx S12: is this good?
xxx IS2: uh how many times (.) have you do the-
xxx S12: three times
xxx IS2: this is three times?
xxx S12: oh yea actually four times
xxx this is my fourth time
xxx IS2: this fourth time?
xxx S12: yea
xxx IS2: this is aqueous layer?
xxx S12: yes I think
xxx IS2: ok
xxx so ok
xxx so you are done?

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xxx so just-
xxx S12: is
xxx is this blue ok?
CLF IS2: yea I think it's (.) basic,
CLF it's strongly basic,
xxx S12: ok
xxx because you told me last time that it was purple,
xxx so
xxx is this blue?
xxx ((laughs))
CLF IS2: (.) no
CLF because y-you use different
CLF you know=
xxx S12: =yea
xxx IS2: different
xxx uh
xxx l-l-l-l-litmus paper=
xxx S12: =mhm
xxx IS2: ok (.)
xxx it's basic.
xxx so right now,
xxx what you need to do is you just have to transfer the
xxx solution in your funnel,
xxx S12: [mhm
xxx IS2: [into the
xxx uh- uh (.)
xxx flask,
xxx and then you d-add the sodium car-so-sulfa-
xxx ((turns around)) that one doesn't work
xxx that one
xxx don-don't use that one,
xxx just use this one,
xxx ((walks away from S11 to another station))
xxx S13: this one won't stop bubbling
xxx IS2: it's-it's your's?
xxx S32: [yea
xxx S13: [it's her's yea
xxx it just won't stop
COM IS2: ((leans down to see))
COM oh it's bubbling
COM right?
xxx S13: yea
xxx IS2: so probably you need to use a large (.)
xxx because (.) after- before you add- before you use the
xxx ten mill
xxx you need to use twenty-five mil
xxx right?
xxx IS2: [you have too many running-
xxx S13: [((incomprehensible)) you put it in this one
xxx right?
xxx IS2: because you have-if a large-you know (.) flask
xxx you should be better.

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xxx but (.)
xxx it bubbles.
xxx it doesn't matter.
xxx so (.) i-it is ether,
xxx is not your product.=
xxx S13: =ok
xxx so
xxx she should just keep that then-
xxx IS2: I think it's-it's fine.
xxx you can just save this.
xxx S13: just- that's it?
xxx IS2: yea that's it=
xxx S13: =yea:
xxx I think so-
xxx IS2: because next week you need to do-still need to
distillation.
xxx S3: yea
xxx S14: ok.
xxx IS2: doesn't matter
xxx S13: let me try and fix this.
xxx IS2: ((begins walking away before running into S11))
xxx S15: hey ?
xxx IS2: yea
xxx S15: so=
xxx IS2: =oh
xxx S15: ((incomprehensible))
xxx I-I washed it like about like four or five-
xxx IS2: =you check the pH?
xxx S15: yea yea
xxx it's blue ((nods and shrugs))
xxx IS2: it's basic already?
xxx S15: ((nods)) it's basic=
xxx IS2: =ok
xxx S15: [(incomprehensible)
xxx IS2: [so
xxx yea (.)
xxx is-is yellow?
xxx S15: ((nods)) yea I think=
xxx IS2: =ok doesn't matter
xxx so next week you do-you need to do the distillation.
xxx S15: ((nods)) yea
xxx IS2: and distillation will give you
xxx you know
xxx very colorless.
xxx S15: ((nods))
xxx IS2: thing,
xxx S15: ok
xxx IS2: so yea
xxx S15: ok=
xxx IS2: =oh ((points to S11's flask))
xxx S15: I already (.) added the-

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xxx IS2: y-you still need to do the ((pointing toward back))
xxx ((incomprehensible))=
xxx S15: ((nods)) =yea I still need to do the ((incomprehensible))
xxx IS2: ok
xxx IS2: [so just
xxx S15: [but it's not gonna change the color.
xxx IS2: yea
xxx it will not change the color.
xxx so (.) basically you need to transfer into the: (.)
xxx S15: ((nods))
xxx IS2: twenty-five
xxx S15: ((nods)) mhm
xxx IS2: mil flask,
xxx S15: yea,
xxx IS2: don't use the ten mil
xxx [ok?
xxx S15: [ok
xxx IS2: yea
xxx then after you use-after you do the load up
xxx and transfer the rest of solution into the ten mil.
xxx S15: ((nods))
xxx IS2: and you just save the (.) ten mil flask,
xxx uh: (.)
xxx I mean ten mil RBF in your drawer,=
xxx S15: ((nods)) =ok
xxx IS2: and that's it=
xxx S15: =ok
xxx IS2: ok
xxx yea it's-it's good=
xxx S15: =ok
xxx IS2: yea
xxx it doesn't matter.
xxx ((briefly passes a student)) yea
xxx good
xxx ((17:55-18:43 audio cuts out/unusable data))
xxx yea,
xxx S16: ((incomprehensible)) no more acetone?
xxx IS2: no more acetone
xxx S16: yea
INR IS2: you need m-y-you (.) you wanna use acetone?
xxx S16: to wash the ((incomprehensible))
xxx IS2: oh ok
xxx ((goes to find acetone))
xxx excuse me
xxx ((rummaging through supplies))
xxx ((to self)) ace- (.3)
xxx which one is acetone?
xxx (both of them are acetone?)
xxx ok
xxx ((19:15-19:45 no dialogue))
xxx ((incomprehensible))
xxx S16: oh yea yea yea

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xxx IS2: ((closes cabinet door))
xxx S13:
xxx I think this is short circuiting
xxx IS2: wha-what happened to this?
xxx S13: it doesn't work
xxx IS2: yea
xxx I tried several times.
xxx S13: cause look.
xxx you have to reset the plug.
xxx right?=
xxx IS2: =I re-I reset this
xxx S13: yea
xxx and then look
xxx as soon as I plug this in, (.)
xxx ((slight clanging sound from outlet))
xxx IS2: [oh
xxx S13: [it's
xxx yea
xxx you see that?
xxx IS2: it's a voltage problem=
xxx S13: =yea
xxx I think it's a voltage problem.
xxx so then I-
xxx I tried the top one
xxx right?=
xxx IS2: =uh-huh
xxx S13: ((resets top one: same clanging sound))
xxx IS2: oh
xxx same thing
xxx S13: yea
xxx IS2: ok=
xxx S13: =and then this won't reach for this one.
xxx so-
xxx IS2: ok
xxx hhh ((tiredly))
xxx ((continues walking))
xxx ((no dialogue until 20:48))
xxx are you ready to leave?
xxx S11: mhm
xxx IS2: can I- do-
xxx S11: oh
xxx IS2: ok
xxx oh I just (.) leave it (.) for (.)
xxx S11: um:
xxx (w- when) does it stop?
xxx IS2: ok
xxx uh:
xxx it depends
21:00
xxx IS2: [because
xxx S11: [((incomprehensible))

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xxx I will (.) I will wait till it (.)
xxx when you are done.=
xxx IS2: =[ok
xxx S11: [ok
xxx IS2: ((pause))
xxx I think fifteen more minutes.
xxx S11: fifteen?
xxx IS2: [yea
xxx S11: [ok
xxx IS2: if-
xxx because I
xxx I won't leave until all the people finish.
xxx S11: oh:=
xxx IS2: =yea:
xxx so
xxx if one people still here,
xxx I need to wait.
xxx S11: ok ((laughs))
xxx IS2: ok ((laughs))
xxx so but
xxx y-you-if-if you want to leave
xxx just tell me and I just (.) get this to you,
xxx S11: u::m
xxx let me check with her=
xxx IS2: =ok
xxx S11: and
xxx uh
xxx if we need to leave,
xxx then-then I will take the ((inaudible))=
xxx IS2: =sure
xxx ok
xxx S17: um
xxx TLC thing ((inaudible))
xxx IS2: uh
xxx S17: nex-
xxx IS2: you need to attach
xxx ah
xxx this is for the (.) last experiment
xxx right?
xxx S17: this is for:
xxx [the TLC
xxx IS2: [TLC
xxx where's your (.) lab (.) report=
xxx S17: =it's in ((incomprehensible))
xxx IS2: you need to hand the-uh you need to-
xxx S17: that is due today?
xxx IS2: it's not due today?
xxx I'm-I'm not sure
xxx so-
xxx S17: I don't know
xxx because we gave in-
xxx IS2: oh you just ch-

xxx uh
xxx you give the ((incomprehensible)) only
xxx right?
xxx ok it is not due today for the TLC.
xxx so (.) just remember-
xxx you need to attach this↑ on your lab report,=
xxx S17: =mhm
xxx IS2: ok?
xxx just save this=
xxx S17: =ok
xxx IS2: k?
xxx ((continues walking))
xxx S4: so
xxx after we coat it with the anhydrous,
xxx um
xxx I'm just putting it into a (.) a round bottom flask?
xxx IS2: and it's-
xxx S4: and rotary evaporate,
xxx IS2: and use the:
xxx twenty-five mil
xxx S4: ((nods))
xxx IS2: erlen fla- uh
xxx RBF
xxx S4: ((nods)) ok
xxx IS2: so after you do the (rot evap)
xxx S4: ((turns to face IS2))
xxx IS2: transfer the: (.1) transfer the solution into the ten mil.
xxx and you need to s- use the ten mil to save your s-final
xxx solution.
xxx S4: into the ten what?
xxx IS2: ten mil
xxx uh
xxx RBF
xxx S4: oh
xxx so twenty-five to ten.=
xxx IS2: ((nods)) =yes
xxx ((continues walking))
xxx ((no dialogue until 23:03))
23:03
xxx are these- aqueous layer
xxx right?
xxx S18: yea
xxx IS2: ok just leave
xxx S18: yea
xxx I already put it in the (.)
xxx [RBF
xxx IS2: [go to the: liquid waste
xxx ((continues walking))
xxx ((walks over to S11))
23:26
xxx I think you can use just use the funnel

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xxx S11: ((nods)) just use the funnel?
xxx IS2: yea the-the-the normal funnel.
xxx stainless funnel.=
xxx S11: =ok
xxx IS2: ok
xxx S11: ((holds up her Erlenmeyer flask)) ((incomprehensible))
xxx is this ok?
xxx like it looks kind of (cloudy)
xxx IS2: ((examines flask))
xxx S11: ((chuckles embarrassingly))
xxx IS2: have you do the rotarvap?
xxx S11: no not yet
xxx IS2: w-w-w-w-what's your (.) problem?
xxx S11: huh?
xxx i-it-no
xxx I was just gonna do it through filter, ((incomprehensible))
xxx cause it looks like there's-
xxx like-
xxx it looks kind of cloudy.
xxx IS2: ((examines flask again 23:50-24:03))
24:03
xxx ((chuckles))
xxx S11: ((laughs))
xxx IS2: ((amused)) why you laughing?
xxx S11: ((laughing)) I don't know.
xxx IS2: ((chuckles and examines more))
xxx uh: (.3)
xxx so we-ok ((chuckle)) ((returns flask))
xxx so
xxx just do the filtration,
xxx S11: ((laughing)) ok
xxx IS2: ok ((laughs))
xxx don't use this,
xxx just use this.
xxx you know-
xxx th-the normal funnel.=
xxx S11: =ok
xxx IS2: and uh (.)
xxx uh
xxx ((pause))
xxx you check a the pH right?
xxx S11: yea I did-
xxx IS2: and i-and the aqueous layer is basic.
xxx how-h-how many times did you (.) do this?=
xxx S11: =three or four times
xxx IS2: three or four times?
xxx S11: yea
xxx IS2: ok
xxx uh (.2)
xxx ((nods)) good
xxx ((laughs))
xxx just-uh-uh

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xxx just do the rotvap because I don't know why that it is
xxx cloudy.
xxx ((pause))
xxx it's not quite cloudy-it's a little bit cloudy.
xxx yea ((laughs))
xxx S11: ((incomprehensible)) horrible
xxx IS2: it's not goo-it's not bad.
xxx so just do this
xxx because ne-I will check whether it is pure not.
xxx in (.) next week.=
xxx S11: =ok
xxx IS2: so distillation is more important than the separate-
xxx uh
xxx separatory funnel (.) separation.
xxx ok?=
xxx S11: =ok
xxx IS2: ((continues walking))
xxx S12: when I did the filtration,
xxx I got up to twenty milliliters,=
xxx IS2: =yea
xxx so (.2)
xxx uh
xxx do you have the: twenty-five mil (.)
xxx S12: ((begins walking))
xxx IS2: ((follows S12))
xxx RBF?
xxx ((arrives at his station))
xxx yea it's just transfer into the-but this is not-
INR you need to (.) replinsh-
INR h-how you say,
INR replin (.) re (.) re-re-reple:nish
xxx right?
xxx S12: ((incomprehensible))
xxx IS2: into f-uh
xxx add more
xxx uh:
xxx ether,
xxx until you got (.) twen-uh twenty-five↑ mil,
xxx S12: ((nod))
COM IS2: ok,
COM because you need to make sure (.) it is-
COM you know,
xxx S12: ((incomprehensible))
COM IS2: uh
COM here
COM right?
xxx S12: yea
xxx IS2: the ((incomprehensible)) solution should be un-over twenty-
xxx five
xxx but it is (.) I think it's good
xxx S12: [((incomprehensible))

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xxx IS2: [twenty-twenty-five
xxx it- huh?
xxx S12: I can add a little bit more=
xxx IS2: >=yea you can add a little bit more not too much,<
xxx and then transfer th-this,
xxx into the: (.2)
xxx S12: which RBF is this=
xxx IS2: =twenty-five
xxx this is twenty-five right?=
xxx S12: =yea
xxx IS2: yea it's twenty-five,
xxx S11: ok
xxx IS2: make sure it is clean,
xxx S12: yea ok=
xxx IS2: =so this is for the reaction
xxx right? (.)
xxx for the first-for the to this reaction
xxx right?
xxx S12: yes=
xxx IS2: >it is not so quite clean< ((or >it is also quite clean<))
xxx just uh:
xxx do you have another RBF?
xxx if you don't have twenty-five,
xxx if-if you only have this one,
xxx you rinse with acetone,=
xxx S12: =ok
xxx IS2: and then uh
xxx ok?=
xxx S12: =ok
xxx IS2: and then (.) pour=
xxx S12: =can I still do rotary evaporation today or not?
xxx because (it's little late) (.)
xxx it's eleven fifty-one
xxx IS2: ok
xxx uh (.)
xxx yea you can do next time
xxx S12: ok=
xxx IS2: =ok?
xxx just transfer into the RBF,
xxx S12: and then=
xxx IS2: and co-use a cork,
xxx S12: ok
xxx IS2: ((turns around and walks))
xxx S2: question
xxx how do I get the: anhydrous sulfate out?
xxx IS2: ((takes S2's RBF and examines it))
xxx ok
xxx so um (.)
xxx it doesn't matter.
xxx S2: [doesn't matter?
xxx IS2: [so next-n-next week
xxx y-you are do the distillation.

xxx and (.) distillation-
xxx you know-
xxx will remove this,
xxx S2: ((nods))
xxx IS2: because you don't-you don't need to wait.
xxx S2: ((nods))
27:00
xxx IS2: right,
xxx so you ha-if you have a little bit.
xxx it doesn't matter.
xxx S2: ((nods)) ok
xxx so I could just rotarvap.
xxx IS2: yea you can do rotarvap.
xxx S2: ((nods and retrieves flask))
xxx ok
xxx thank you=
xxx IS2: =don't
xxx don't rovap for too long time,
xxx S2: yea
xxx just-
xxx IS2: just
xxx uh: (.) make sure if-
xxx if it is less than ten-
xxx just make sure this can transfer into the ten mil RBF.
xxx [so that one should be fine
xxx S2: [so I should add ether
xxx right?
xxx [I should add-
xxx IS2: [you don-you don't need add ether
xxx S2: I don't need that
xxx so I-
xxx when do I know when to stop the rotarvap?
xxx (.) uh:
xxx h-how many volume have y- (.)
xxx S2: [((incomprehensible))
xxx IS2: [around-around twenty-five
xxx e-enough
xxx S2: fifteen.
xxx IS2: fifteen
xxx S2: [it's about fifteen
xxx IS2 [ok (.1)
xxx I think
xxx uh:
xxx y-you can remove
xxx uh (.1)
xxx maybe five mil[↑] (.) ether,
xxx S2: ((nods))
xxx IS2: then this-this-this-is-is-uh:
xxx that's enough.
xxx S2: ((nods))
xxx ok

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xxx IS2: ok
xxx so the thing is just tran-
xxx just make sure (.)
xxx after you do the rovap
xxx you can transfer the rest of them into the ten mil.
xxx S2: ((nods)) ok
xxx IS2: ok,=
xxx S2: =got it
xxx IS2: [yea
xxx S2: [thank you ((walks away))
xxx IS2: ((continues walking))

28:19

xxx S11: we'll wait for you
xxx IS2: oh really?
xxx S11: yes
xxx [yep
xxx IS2: [ok
xxx S11: ((incomprehensible))
xxx IS2: ((laughs))
xxx ((continues walking))
xxx ((28:23-30:11 no dialogue))

30:11

xxx S15: (I have a question)
xxx so when I put it in the rotarvap,
xxx when-the minute I (apply) the vacuum,
xxx it starts bubbling.
xxx is that supposed to happen?=
xxx IS2: =yea
xxx S15: ok
CLF IS2: you need to turn the: (.) vacuum on?
xxx S15: yea I turn the vacuum on and it starts bubbling like crazy
xxx randomly.
xxx IS2: did you- ((incomprehensible))
xxx you know
xxx ((walks to rotary evaporator with S11))
xxx this is twenty-five mil
xxx right?
xxx S15: yea=
xxx IS2: =RBF
xxx S15: so then like
xxx I put the vacuum on,
xxx IS2: yea?
xxx S15: ((inaudible))
xxx oh
xxx ok
xxx before↑ it was like the minute I turn on the vacuum-
xxx IS2: oh ((leans into the evaporator))
xxx you have the sodium sulfate.
xxx S15: uh:-
xxx IS2: you need to filter the sodium su-
xxx S15: I did

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xxx I-I found-
xxx IS2: but still you have some
xxx right? (.)
xxx have you check the-
xxx S15: (I did it) through filter paper.
COM IS2: but you see, ((reaches into evaporating station))
COM uh it doesn't matter
COM ok
xxx S15: doesn't matter?
xxx IS2: yea
xxx so the (.) you need to filter-
xxx you do the filtration you need to filter all the (.) sodium
xxx sulfate.
xxx but
xxx ((audio lost from 31:06-31:20))
31:20
xxx it's not from your's
xxx I think so.
xxx because I saw this-
xxx S15: ((nods))
xxx where?=
xxx IS2: =uh:: (.)
xxx several minutes ago.
xxx S15: ok
xxx IS2: (.1) mm ((waiting for solution to evaporate))
xxx so just wait until you got-
xxx you know-
xxx less than ten mil.
xxx because you need to transfer-
xxx ((audio completely cuts out through to end of video))