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LabChemistry_IS2_20160309_Camera2_Seg03.pdf

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Participants: IS2 (TA), S1 (female student, wearing a hijab), S2 (male student, pink shirt), S3 (female student), S4 (male student), S5 (female student), S6 (female student), S7 (female student), U1 (UGTA, male, dark shirt and pants), S9 (female student, long black ponytail), U2 (UGTA, girl, long blue skirt), S11 (male student), S12 (female student), S13 (female student), S14 (female student, brown ponytail), S15 (female student, dark blonde ponytail and black leggings), S16 (female student), S17 (male student, dark hair and short beard), S18 (male student), S19 (female student), S20 (female student), S21 (male student, dark close-cropped hair and short beard), S22 (female student), S23 (female student), S24 (male student), S25 (female student), S26 (female student, long straight black hair and gray shoes), S27 (male student), S28 (female student), S29 (male student), S30 (female student), S31 (female student), S32 (female student, long black hair), S33 (female student), S34 (female student), S35 (female student)

Context: IS2 is walking around helping students with their chemistry labs.

0:00

xxx IS2: so,
xxx everything is-
xxx your solution has some (.) acetone inside it?
xxx so that's why y-
xxx S1: the hexanes and I put it into the (glass) that's why
xxx I stopped it.
xxx IS2: yes.
xxx you don't need to wash- with acetone.
xxx S1: oh:
xxx it's all the way at the end.
xxx IS2: yes.
xxx S1: I thought- [cause I was like I need to clean-
xxx IS2: [okay. doesn't matter.
xxx so the thing is you just run the TLC
xxx right now,
xxx S1: okay.
xxx IS2: yes. [so: uh:
xxx S1: [so I don't need to do (the filtration)?
xxx IS2: you don't need to do a (filtration) a-anyway
xxx so just run the first five.
xxx okay?

xxx ((turns away))
xxx S1: thank you.
xxx S2: ((undecipherable))
xxx IS2: yeah you do
xxx did you got crystals?
xxx S3: yeah they already formed.
xxx even before I added the cold.
xxx IS2: oh.
xxx right here right,
xxx S3: yeah.
xxx IS2: I think it's-it's totally enough.
xxx S3: that's enough?
xxx IS2: it's enough.
xxx [yeah.
xxx S3: [okay
xxx so you want me to add my-
xxx IS2: yeah yeah yeah yeah.
xxx S3: okay.
xxx ((pause))
xxx S4: is this supposed to crystalize right now,
xxx or after you add the-
xxx IS2: after you ↑add.
xxx that's why we need cold hexene right?
xxx S4: huh.
xxx ((pause))
xxx IS2: don't forget to uh: mark the: solid front.
xxx S5: mhm.
xxx ((pause))
COM IS2: the crystals come out?
xxx S6: hm?
xxx IS2: yes- so uh- yeah.
xxx so uh: you can add some (.) cold hexene more?
xxx to see whether you have more crystals?
xxx S6: mhm.
xxx IS2: how many uh:
xxx cold hexene have you added.
xxx S6: I didn't even measure (it).
xxx IS2: really?
xxx S6: I started like around here.
xxx IS2: okay you can add one mil more,
xxx S6: [okay.
xxx IS2: [so:
xxx yes one (mil) more-after that t-do the filtration.
xxx because we don't need to (connect) the crystals.

xxx [okay
xxx S6: [okay yeah.
xxx IS2: just- you get some and the- dissolve it and (spot) for the
xxx last (.) spot.
xxx S6: okay.
xxx ((pause))
xxx IS2: uh:
xxx three to one ratio (right)
xxx ((undecipherable))
xxx S7: that- that's not the right (.) thing.
xxx IS2: it's ((undecipherable)) right?

2:52

xxx ((pause))

3:21

xxx U1: ((undecipherable))
xxx IS2: huh?
xxx U1: y-you should be an actor.
xxx IS2: no:!
xxx U1: getting filmed and everything. ((laughs))
xxx IS2: you're wrong. ((laugh))

3:30

xxx ((pause))

4:18

xxx S9: what do we do with the crystals?
xxx IS2: uh:
xxx just leave it-uh-discard it.
xxx we don't need this.
xxx S9: uh solid waste?
xxx IS2: uh: solid-solid waste.
xxx S9: okay.
xxx U2: what happened?
xxx IS2: we don't need uh: s-
xxx U2: [crystals? no.]
xxx IS2: [solid right-?]
xxx U2: [no. no.]
xxx IS2: [crystals right]
xxx just to leave to the: solid waste.
xxx U2: yeah.
xxx because ((undecipherable))

4:38

xxx ((pause))

5:19

xxx S11: yeah right
xxx IS2: yup?

xxx S11: how does this look
xxx is this good?
xxx IS2: it's good,
xxx you can do the filtration right now.=
xxx S11: =okay.
xxx S12: uh:
xxx IS2: yeah?
xxx S12: do I-
xxx S12: take it out using like
xxx IS2: j-just >take it out<
xxx and uh mark the solid front before you check with UV light.
xxx ((undecipherable))
xxx S12: okay.
xxx IS2: ((walks to another student))
xxx mark the- uh ↑hey!- mark the solid front!
xxx S13: ((undecipherable))
xxx IS2: because-
xxx S13: I just ((undecipherable))
xxx IS2: oh you don't put it into the: [chamber?
xxx S13: [no.
xxx IS2: okay.
xxx ok ok ok ((undecipherable))
xxx ((pause))

6:00

xxx IS2: oh: you got so much solid.
xxx ((S14 and IS2 both laugh))
xxx IS2: congratulations.
xxx S14: thank you.
xxx IS2: ((laughs))
xxx S14: so: just dissolve and then,
xxx [that's it?
xxx IS2: [uh:
xxx you can- do you have the:-
xxx S14: yeah they're (.) little-
xxx IS2: just-jus
xxx S14: this?
xxx which one?
xxx IS2: no (.) uh:
xxx (.2)
xxx you can use spatula.
xxx to: (swirl) it
xxx make sure you-
xxx it is (up)?
xxx S14: yeah I think so.

xxx IS2: so you can add more.
xxx S14: oh add more?=
xxx IS2: =yeah add more.
xxx S14: I added two scoops of the ((undecipherable))
xxx IS2: ah: ah I-I think you can add more.
xxx S14: okay.
xxx IS2: because i-if your concentration is-is-is low so,
xxx maybe need to spot for seven times
xxx but uh- if your concentration is high,
xxx maybe: it's better.
xxx S14: [(but you don't- it-)
xxx IS2: [I-I think it's fine yeah.
xxx S14: it-
xxx IS2: but you don't need to (worry about that)
xxx S14: we don't need that right,
xxx IS2: just discard-
xxx S14: okay.
xxx IS2: discard to the solid waste.
xxx S14: yeah it dissolves quickly.
xxx U1: is that right?
xxx S14: yeah.
xxx IS2: okay.
xxx just- uh
xxx S14: (spot) it
xxx IS2: do- for the last one?
xxx S14: yeah.
xxx IS2: and uh check with UV light before you put it in the
xxx chamber?
xxx S14: okay.
xxx IS2: uh okay
xxx and the chamber- th-the-the-
xxx S14: (this one right)
xxx IS2: the solvent is three to one ratio?
xxx it's different from the part a?
xxx and (you need to prepare for anoth-another one)
xxx S14: so: that's another ten mil?
xxx IS2: [ten mil yes.
xxx U2: [you could do twelve.
xxx IS2: twelve is fine- twelve is-is [easier to calculate.
xxx S14: [easier yeah
xxx IS2: yes.
xxx yeah.
xxx S15: I think a little bit of the solution got in my glove?
xxx cause I feel it in my glove.

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xxx IS2: (bromine)?
xxx U1: wash your- with cold water- cold water
xxx S15: the bromine-
xxx I washed cold water and then I-
xxx but I can feel like my finger-fingertips like
xxx U2: it's fine.
xxx just keep washing with cold water.
xxx U1: could be-
xxx yeah just keep washing with cold water?
xxx IS2: uh::
xxx U1: if it doesn't go away in three minutes (.) come back.
xxx U2: just keep it under cold water.
xxx S15: okay.
xxx U1: come back don't leave if it still hurts.
xxx [okay]
xxx S15: [okay]
xxx U1: cold water
xxx S15: yeah
xxx U1: for like three minutes
xxx S1: um
xxx IS2: yeah
xxx S1: now that I'm done with this,
xxx do I check it under the UV light?
xxx IS2: yes sure.
xxx S1: and then for the r f value?
xxx IS2: uh::
xxx S1: what-which do I-
xxx IS2: calculate?
xxx S1: yeah.
xxx IS2: so: um:
xxx this is solvent front right?
xxx S1: mhm.
xxx IS2: and this is origin.
xxx so: uh:
xxx the distance between here is the:
CLF uh::
CLF (.3)
CLF this is numerator right?
xxx S1: hm?.
xxx yeah I did that one already
xxx IS2: this is numerator↓ and this is the:
xxx if you have (this spot) right here?
xxx S1: mhm.
xxx IS2: and uh-also-uh:

xxx U1: she can do it again.
xxx S1: (uh:)
xxx IS2: but- I think you can check the: first five spot.
xxx S1: uh huh.
xxx IS2: if it is (.) strong?
xxx you still have time to run another reaction?
xxx S1: okay.
xxx IS2: but (it is right-) I think- so:
xxx I think (.) they need to do:
xxx U1: y-you're saying that at the end she'll just omit the
xxx crystallization step?
xxx or like take from someone else's? ((laugh))
xxx IS2: uh::
xxx U1: [because look- no matter what
xxx S1: [cause I- I put it in ((undecipherable))
xxx U1: she's not gonna have the crystallization part,
xxx S1: yeah:
xxx IS2: yes.=
xxx U1: =right?=
xxx IS2: =yes.
xxx U1: I mean if the others are perfect,
xxx she could skip it.
xxx IS2: uh:,
xxx U1: but
xxx IS2: [okay
xxx S1: [but like how would I do it
xxx IS2: did you- did you check the: UV light, already?
xxx U1: you didn't run the ((undecipherable))
xxx she didn't run the ((undecipherable)) yet.
xxx S1: [no no I ran it I-
xxx IS2: [she run already- ran already.
xxx S1: I ran it and now I'm gonna try ((undecipherable))
xxx U1: oh okay go ahead try it.
xxx IS2: (yeah you) just check it.
xxx U1: let me- lemme walk with you.
xxx S1: okay.
xxx S16: uh: we hand in the TLC plates on the due date right?
xxx we just hand in these today?
xxx IS2: yes.
xxx uh: TLC plate is due:
xxx uh: two weeks ago-?
xxx uh two weeks later?
xxx S16: okay.
xxx IS2: uh:

xxx this is-this is your last T-TLC plate?
xxx S16: mhm.
xxx ((pause))
xxx IS2: standard?
xxx so fo-for the standard you got two?
xxx S16: yeah.
xxx IS2: uh-it's just like this one right?
xxx S16: yeah [it's just like that.
xxx IS2: [I don't think it's- it's two
xxx because uh maybe (.) your solution is (.) too concentrated
xxx it has a tail.
xxx S16: may:be:
xxx IS2: so the ((undecipherable)) but
xxx uh: still it's uh:
xxx it's still a one spot.
xxx S16: it's still one spot? [okay.
xxx IS2: [yes.
xxx right right right right.
xxx good.
xxx S16: okay.
xxx S17: uh
xxx IS2: oh?
xxx S17: (I don't need) the rest of this right?
xxx IS2: did you (grow) some crystals already?
xxx S17: yeah I put them in the filter already
xxx and I got them there
xxx IS2: okay you don't need this.
xxx S17: okay.
xxx IS2: just a little bit.
xxx S17: alright.
xxx ((pause))
xxx IS2: ((to S18))
xxx any crystals?
xxx S18: yeah.
xxx IS2: oh you have.
xxx okay just do your filtration.
xxx ((pause))
xxx cool.
xxx S18: is it this one?
xxx IS2: yes.
xxx ah no no no no sorry. this one.
xxx S18: oh.
xxx IS2: all the way.
xxx yup.

xxx S19: is this enough or do I need to-
CLF IS2: oh it's enough.
xxx S19: enough?
xxx IS2: yes.
xxx S19: okay.
xxx IS2: do the filtration?
xxx U2: so how's it going?
xxx IS2: it's good.
xxx huh?
xxx U1: her uh-
xxx IS2: is her reaction good?
xxx U1: it was good.
xxx IS2: it's good?
xxx U1: yeah.
xxx check it out.
xxx U2: wait so you did have fumerate.
xxx U1: uh: [((undecipherable))
xxx U2: [that's pretty good!
xxx IS2: it's good.=
xxx S1: =really?
xxx U1: she just didn't get crystals.
xxx U2: [yeah.
xxx IS2: [yeah.
xxx S1: I don't know why.
xxx U2: honestly just take someone else's results.
xxx S1: really?
xxx IS2: b-I think the m acetone messed up your-her reaction.
xxx S1: yeah I-I'm pretty sure
xxx basically what happened=
xxx IS2: and also some (.) water right?
xxx S1: um I needed to put in the um the (.)
xxx the cold hexenes and,
xxx literally just from the c-cylinder to a beaker,
xxx U1: yeah.
xxx S1: so I cleaned my cylinder with acetone,
xxx U1: [oh.
xxx U2: [oh that's probably why.
xxx S1: but it (got stuck),
xxx IS2: yeah.
xxx U1: [couldn't she just borrow someone's crystals?
xxx U2: [I mean honestly
xxx I would say just borrow someone's crystals.
xxx S1: okay.
xxx U2: oh but you already did it

xxx S1: yeah I did ((undecipherable))
xxx U1: she already did the ((undecipherable))
xxx S1: cau-cause I didn't (((undecipherable)))
xxx IS2: [I think doesn't matter

12:00

xxx so maybe [you will use-
xxx U2: [oh well you could redo it
xxx IS2: redo it?
xxx U2: it won't-it won't go up anymore will it?
xxx U1: yeah it will [uh:
xxx IS2: [twenty minutes?
xxx U1: if you redo the: (((undecipherable))
xxx IS2: [OH I see
xxx so you don't t- you don't need to do the:
xxx [the first five you just-
xxx U2: [so what I say is just circle these dots,
xxx S1: mhm.
xxx U2: put the crystal there,
xxx S1: okay.
xxx U2: redo the (.) chamber,
xxx S1: till it comes to the solvent front,=
xxx U2: =yeah.=
xxx S1: =and then
xxx okay alright. i'll try that.
xxx U2: [that would work right?
xxx U1: [as long as-
xxx as long as that's dry currently.
xxx S1: yeah.
xxx U1: well,
xxx U2: [yeah it has to dry.]
xxx U1: [it's- but it's already saturated with-]
xxx IS2: [uh::]
xxx U1: [the liquid]
xxx U2: it should work-
xxx U1: [why doesn't she just-
xxx U2: [no no no it should work
xxx because remember last semester,
xxx someone used the wrong solvent-
xxx ((to S1)) sorry- y-you do whatever-
xxx S1: okay.
xxx U2: someone used the wrong solvents,
xxx and
xxx the-the chamber was already saturated.
xxx IS2: uh huh.

xxx U2: but me and Yao redid it,
xxx IS2: ((nods))
xxx U2: and it still worked.
xxx with the right solvents.
xxx IS2: uh huh.
xxx [but- uh-
xxx U1: [so
xxx we could [((undecipherable)) we could do that
xxx IS2: [she: can borrow some solvent-
xxx so-[crystals from others okay?
xxx U1: [mhm.
xxx U2: [yeah she can borrow solvents crystals from someone else
xxx IS2: uh if-if you want- so:
xxx you can do this,
xxx S1: okay.
xxx IS2: uh you can re-(.) rerun your TLC plate,
xxx S1: okay.
xxx IS2: [>it doesn't matter<
xxx U1: [or
xxx IS2: so: yeah.
xxx you can do this.
xxx S1: [I-I'll do that.
xxx U1: [or she can just get a small skinny one and staple it on.
xxx U2: yeah.
xxx like if this [doesn't work,
xxx IS2: [doesn't matter.
xxx you can-you can rerun your TLC plate two times.
xxx it doesn't matter.
xxx U1: [uh huh alright okay
xxx U2: [that's what I'm saying ((undecipherable))
xxx IS2: [yeah yeah yeah (it should be alright
xxx U1: it's same plate yeah?
xxx S1: [yeah]
xxx IS2: ah so m-m-m-my-my-my (point) is
xxx if you can
xxx just (.) borrow some
xxx S1: [okay.
xxx IS2: [crystal from others,
xxx U2: that's what I thought yeah
xxx IS2: [okay.]
xxx S1: [um]
xxx U2: [it should work]
xxx S1: [just one question] is it the top circle or the bottom-
xxx U1: [both.

xxx U2: [both.
xxx S1: oh both.
xxx U1: circle [them both
xxx U2: [if it's light circle, do dotted lines.=
xxx U1: =do a dotted line.
xxx S1: okay.
xxx U1: so [uh
xxx IS2: [uh-just uh:,
xxx U1: [(.) you're
xxx IS2: [so I-I-I-I think the-the point is so:
xxx you can outline the:
xxx the first five spot. [right now.
xxx S1: [mhm.
xxx IS2: [because this is the f-first one
xxx U2: [yeah that's what-that's what I'm saying. (.) yeah.
xxx IS2: and-and you can calculate the RF value right?=
xxx S1: =mhm.
xxx IS2: so (.) after you run th- another time
xxx the:-the first five spot will run again-,
xxx will-will [run higher
xxx U2: [yeah ((undecipherable))
xxx U1: [((undecipherable))
xxx IS2: but uh- [but you don't need
xxx U2: [((undecipherable)) calculate the:
xxx S1: [original lines?]
xxx U2: [y-you calculate the ones you s-]
xxx U1: [you already had the circle so ((undecipherable))
xxx S1: [oh:..
xxx U2: [you- you calculate the ones ((undecipherable))
xxx IS2: [yes.
xxx U1: but no this-
xxx IS2: you can now react (beyond) the second time.
xxx U1: they do they uh they check the uh
xxx they check the plates.
xxx U2: do they?
xxx U1: they-they yeah they check the plates for the distributions.
xxx [like for the spots.
xxx IS2: [uhn: just outline right now?
xxx S1: okay.
xxx U1: [
xxx IS2: [and uh: for the last spot- so:
xxx U1: [
xxx U2: [(maybe she was) right
xxx IS2: [borrow some from others and uh: outline the last one

xxx only last one.
xxx [you don't need to-you don't need to outline the first five
xxx U1: [((undecipherable))
xxx U2: [((undecipherable))
xxx S1: okay.
xxx IS2: after you run the s-second time
xxx S1: so I just do the last one?
xxx U1: [yep.]
xxx IS2: [just do the last one.]
xxx [okay okay
xxx U1: [why doesn't she just uh use like a skinny one for her
xxx crystals?
xxx like the small TLC plate [and do only crystals
xxx U2: [and just attach it ?
xxx yeah.
xxx [she could do that too.
xxx U1: [and then she could staple it onto that TLC plate
xxx IS2: but-the thing is she needs to dissolve the-uh:
xxx those crystals right?
xxx U1: yeah [yeah
xxx U2: [yeah
xxx U1: so I'm saying instead of running it on the same plate,
xxx [that she could just
xxx IS2: [you can run a smaller plate
xxx U2: [yeah yeah
xxx IS2: but I think-
xxx the thing is- the:
xxx they need to hand out the TLC plate right?
xxx U1: yeah.
xxx IS2: [and uh
xxx U2: [oh you
xxx IS2: [we-we need the complete one.
xxx U2: [why can't she just hand in both of them
xxx IS2: [((undecipherable))
xxx U1: can she-yeah can't she just staple it together
xxx ((undecipherable))
xxx IS2: oh uh yeah it's fine too.
xxx yeah it's fine too
xxx U2: just do both.
xxx S1: okay.
xxx U2: [run it this one twice
xxx IS2: [yeah yeah you can another-another TLC plate
xxx U2: [((undecipherable))
xxx U1: if she runs this one twice then they- if they check the uh:

xxx if they [do check under UV
xxx U2: [that's what I ((undecipherable))
xxx U1: they check this right?
xxx have you graded this one before or no?
xxx IS2: no.
xxx U1: cause they do check under UV
xxx uh they check [your spots
xxx S1: [((undecipherable))
xxx IS2: [yeah.
xxx S1: [oh this is a little (.) heavier.
15:00
xxx these-[this one's dotted.
xxx U2: [okay let's move away.
xxx S1: [sorry
xxx IS2: [yeah yeah yeah. sorry.
xxx U2: [so people can use the thingy
xxx U1: they do check the spots.
xxx so I'm thinking instead of doing it on here
xxx just do one skinny one and attach it [on
xxx IS2: [oh yeah yeah yeah
xxx S1: [okay
xxx IS2: you can do a separate- you can use a new uh:
xxx IS2: [TLC plate small-
xxx U1: [yeah s- you have another small TLC plate right
xxx S1: yeah mhm
xxx U1: [just use that
xxx IS2: [just use that a:nd do the- [((undecipherable)) last one
xxx U1: [do only crystals (on that)
xxx IS2: [just do crystals yeah yeah yeah yeah.
xxx U1: [and don't-don't run this.
xxx S1: don't run this one.
xxx U1: yeah don't run it.
xxx S1: okay.
xxx thank you guys so much.
xxx U1: right-right-you agree?
xxx IS2: yeah yeah yeah yeah. definitely.
15:27
xxx ((pause))
15:55
xxx S20: (is this right)
xxx IS2: oh.
xxx S20: ((undecipherable))?
xxx IS2: I think it's all right.
xxx S20: okay.

xxx it's good.
xxx S20: thank you.
xxx oh how about this one-this first one?
xxx IS2: uh discard to the: solid waste.
xxx S20: okay.
xxx IS2: [we don't need to (carry) them.
xxx S20: o[kay
xxx IS2: [okay
xxx S20: thank you.
16:14
xxx ((pause, IS2 walks around))
16:35
xxx IS2: did you finis?
xxx S21: u:m yeah just- I'm almost done.
xxx I'm just (.) waiting for it to like dry a little bit.
xxx IS2: okay oh your crystals right
xxx S21: yeah yeah yeah.
xxx IS2: okay.
16:42
xxx ((pause, IS2 walks around))
17:00
xxx IS2: are you doing the last one?
xxx S22: yeah.
xxx IS2: okay.
xxx S22: I did it (already).
xxx IS2: uh huh.
xxx so: this is a: three to one ratio?=
xxx S22: =yeah=
xxx IS2: =okay.
xxx use- uh: use uh forceps.
xxx ((pause))
xxx good.
xxx ((pause))
xxx IS2: yeah?
xxx S23: I was wondering why: this doesn't have a results sheet at
xxx the very end
xxx this was last week's lab-
xxx see it's one [nineteen
CLF IS2: [you mean the report form?
CLF S23: one twenty- yeah
CLF IS2: oh no: report form,
CLF which-which-
xxx S23: this was the:-
xxx for uh (myristic) acid from ((undecipherable)).

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xxx I was um- I'm getting the (myristic) acid melting
xxx point now?
xxx cause that's what we have to do today right?
xxx IS2: yes.
xxx S23: yeah the (myristic) acid
18:00
xxx but there's no result form.
CLF I was really confused see it just-
CLF IS2: yeah yeah yeah um- me too.
CLF [u:m
CLF S23: [it says one twenty and then it-like- the pages are right,
CLF IS2: ((almost a direct echo of her intonation/tone))
CLF the pages are right,
CLF S23: yeah they're completely right.
CLF [that's so-
TTF IS2: [there should be no.
CLF S23: there should be no result form?
xxx IS2: yes.
xxx S23: [uh:
xxx IS2: [if the-if the number is right,
xxx that-so
xxx S23: oh okay so I just [((undecipherable))
xxx IS2: [you don't need to (think about this)
xxx okay?
xxx S23: okay [thank you.
xxx IS2: [uh:, uh.
18:20
xxx ((pause, no exchanges))
19:25
xxx S24: ((undecipherable)) cause it says to dissolve the crystal?
xxx IS2: oh you can get some-
xxx so after you do the- after you finish the filtration
xxx you can get some crystals from the filter paper?
xxx and dissolve with methylene chloride.
xxx and uh: use another solution to do the last spot.
xxx S24: oh:
xxx IS2: you know what I mean?
xxx S24: oh.
xxx IS2: so just- uh you can use cold hexene
xxx to uh swirl it?
xxx and then pour into the (.) filter paper
xxx ((to UGTAs))
xxx oh!
xxx has someone (.) uh: left already?

xxx U2: yeah.
xxx IS2: th-they need to- they need to:
xxx measure the melting point for the myristic acid.
xxx for last experiment.
xxx and also they need to wait
xxx U2: oh [(you're) right
xxx IS2: [(I forgot it)
xxx U2: she can do it next week at the beginning of lab.
xxx IS2: so: how about the rest of them
xxx U2: yeah they are good.
xxx U1: sorry what?
xxx U2: they're doing melting point of myristic acid.
xxx IS2: and they-they need to measure the melting-uh mixed melting
xxx point right?
xxx U1: [should I- should I shout?
xxx IS2: [but some of them are left uh:
xxx U2: only one person left.
xxx IS2: only one?
xxx U2: yeah.
xxx IS2: really?
xxx U2: only [REDACTED] left.
xxx U1: only one.
xxx IS2: okay.
xxx U1: alright ((undecipherable))
xxx IS2: just-just give them some.
xxx U1: ((to class)) guys when you're done with your
xxx experimentation,
xxx you do melting point
xxx o:f myristic acid,
xxx mixed melting point.
xxx IS2: [and w-wait-wait ((undecipherable))
xxx U1: [stuff like that
xxx make sure you weigh it.
xxx you still have to finish your last week's lab.
xxx they can-they can actually do it next time because u:m
xxx IS2: yeah yeah yeah I think so.
xxx U2: [they can do it next time?
xxx U1: [because they have another week
xxx because uh:
xxx IS2: next week
xxx U1: [((undecipherable))
xxx IS2: [we have spring break right
xxx U1: yeah yeah yeah next week is spring break.
xxx but uh next time when we come in,

xxx it's trimyristic.

xxx IS2: what is (next experiment)?

xxx U1: oh next-

xxx U2: next experiment-

xxx IS2: beta carotene?

xxx U1: beta carotene yeah.

xxx IS2: beta carote:::ne.

21:00

xxx ((pause, no exchanges))

21:39

xxx S25: the myristic acid is what we did from last time
xxx right?

xxx IS2: yes

xxx S25: [(so it should be what we crystalize?

xxx IS2: [yes

xxx you ((undecipherable)) the:: tube.

xxx I think so right?

xxx so you need the weight of your (.) sample?

xxx S25: oh [okay

xxx IS2: [and do the (subtraction)?

xxx yeah this is you:r

xxx S25: okay.

21:54

xxx ((pause, no exchanges))

22:20

xxx IS2: ((yawn)) did you guys get crystals?

xxx S26: hm? yeah [(our thing)

xxx IS2: [okay.

xxx S26: but it's-uh-it's kind of orange though.

xxx [why is it orange?

xxx IS2: [kind of orange?

xxx so:

COM you need to wash with acetone until you've got white.

COM S26: acetone?

COM IS2: uh no sorry.

xxx S26: [oh

xxx IS2: [uh: cold hexene.

xxx S26: oh till I get white?

xxx IS2: you wash it, (.) until you've got, (.) white.

xxx S26: okay alright.

xxx cause I-I thought I already used too much.

xxx so:

xxx IS2: no.

xxx use micropipette!

xxx don't use this one [to do the TLC plate okay?
xxx S26: [oh.
xxx °that's why.°
xxx IS2: it's totally wrong.
xxx [((laugh))
xxx S26: [um
xxx I don't have a new one.
xxx [I don't-
xxx IS2: [oh: you don't have a new you can get (.) some (.) more (.)
xxx from the:
xxx the other TA,
xxx S26: but I-I uh- I used the: pipette
xxx [for the
xxx IS2: [you use the micropipette to do the first five?
xxx S26: the twenty.
xxx the ten and the twenty.
xxx IS2: oh.
xxx just make sure it is-it is not overlapped.
xxx [the spot is not overlapped.]
xxx S26:[↑I know!]
xxx [it's not overlapping.]
xxx IS2: [it's not overlapped right?]
xxx S26: m m
xxx [((undecipherable)) in the UV.
xxx IS2: [okay that's fine-that's fine.
xxx S26: okay uh: micropipette.
xxx IS2: micropipette.
xxx so this is standard uh: way to do the TLC okay?
xxx S26: okay.
xxx IS2: ((laughs)) don't use-
xxx ((pause))
CLF S27: are we supposed to transfer step twelve into-
CLF into um this?
CLF IS2: what?
CLF [twelve↑
xxx S27: [do you use the sol-how do you get the solution from here
xxx to here?
xxx like (.) cause my crystals ((undecipherable))
xxx IS2: use a spatula?
xxx get some? (.) uh:: transfer to the: uh:
xxx tube.
xxx you-you have (.) small tubes right,
xxx S27: uh: ye.
xxx IS2: get- just use-just use a small tubes to dissolve your

xxx solids.

xxx smaller one.

24:00

xxx S27: uh:

xxx IS2: do you have smaller one?

xxx ((pause))

xxx IS2: yes?

xxx (sure) yeah

xxx S27: just a little bit right?

xxx IS2: just a little bit.

xxx uh: I think- uh:

xxx a little more

xxx don't use a little bit.

xxx so it-it's-it's more than the (.) melting point.

xxx okay,

xxx uh: because,

xxx uh I-if you have more the concentration is high

xxx so the spot is more uh clear.

xxx S27: oh: okay.

24:31

xxx ((pause, no exchanges))

25:28

xxx S1: so

xxx IS2: [yeah

xxx S1: [I got the crystals

xxx IS2: you got [crystals?

xxx S1: [yeah

xxx crystals right here.

xxx IS2: uh:

xxx S1: (the) crystallization?

xxx IS2: uh::

xxx lemme see

xxx where's the:

xxx S1: (the other one↑) right here

xxx IS2: the other one

xxx I need to compare them.

xxx ((pause))

xxx okay it's fine?

xxx uh:

xxx I think, uh:

xxx what you need to do, uh:

xxx the-the right way to do this is-is

xxx you have crystals?

xxx and also you have the-you should have a standard.

xxx because you need to check whether your crystals is the
xxx product right?
xxx S1: mhm.
xxx IS2: so: you need to compare your crystals with uh:
xxx with standard.
xxx S1: mhm.
xxx IS2: because standard is product.
xxx S1: oh.
xxx IS2: right? so: so yes.
xxx uh:
xxx do you have extra TLC plate?
xxx S1: um
xxx IS2: this is your last one?
xxx you can (use) a smaller one?
xxx i-i-is this clean?
xxx S1: hm no this one's not clean.
xxx IS2: you used this already?
xxx S1: yeah
xxx because I accidentally used that [like I dropped it
xxx IS2: [okay.
xxx S1: no
xxx IS2: you don't have right,
xxx okay uh:
xxx do you have (theses)?
xxx S1: um:
xxx IS2: no
xxx S1: I don't think they put any down there.,
xxx IS2: okay uh:
xxx I ((undecipherable)) get another TLC plate for you
xxx S1: okay
xxx IS2: and I- you just run another time?
xxx uh y-you don't discard the:
xxx [crystal solution right?
xxx S1: [no ((undecipherable)) yeah.
xxx IS2: okay

27:00

xxx just get some crystals from, (.) right here,
xxx and also get some (.) standard solution
xxx S1: [so the fumerate?
xxx IS2: [and run these two spot.
xxx fumerate yes.
xxx just make sure- w-where the ((undecipherable)) are the same
xxx RF value.
xxx if it is then

xxx uh: you are done.
xxx [okay?
xxx S1: [okay.
xxx S28: excuse me, I have a question
xxx IS2: yeah.
xxx S28: at the end of this semester, is there any way I could do
xxx this
xxx crystallization lab again because my adaptor something's
xxx [wrong with it?]
xxx IS2: [sure sure sure sure.]
xxx S28: and I-I didn't get much.
xxx [that's why.
xxx IS2: [we-we have um- we
xxx you don't get much so you want to make up
xxx S28: yeah [can I
xxx IS2: [okay
xxx you can uh send an email to ask uh doctor (chin)
xxx because-so at the end-normally at the end of the:
xxx of the-of the the-th-th-this class
xxx so if some-anyone uh:
xxx who's absent for this class will do the makeup
xxx but I'm not quite sure whether- (if you did it) already you
xxx got low yield whether you can (.) have another chance to do
xxx this.
xxx S28: okay.
xxx [so ((undecipherable))
xxx IS2: [((undecipherable))
xxx S28: Dr. Chang?
xxx IS2: Dr. Chang yes.
xxx S28: okay.
xxx IS2: okay?
xxx S28: got it thank you.
xxx IS2: yep
27:55
xxx ((pause))
28:21
xxx IS2: what happened?
xxx S29: uh: got something on my hand.
xxx IS2: wh-
xxx S29: I'm just gonna wash it in cold water.
xxx IS2: wh-wh-wh-wh-wh-what solution?
xxx S29: I have no idea.
xxx IS2: okay.
xxx S28: [((undecipherable))

COM IS2: [if it turns red right
COM S29: what was that?
xxx IS2: it turns red
xxx S29: yeah it's just a little red.
xxx IS2: do you feel any con-uncomfortable?
xxx S29: not really.
xxx IS2: okay.
xxx S29: [so I'm good?
xxx IS2: [so just
xxx I think so
xxx S29: okay
xxx IS2: just wash with cold [water
xxx S29: [oh still?
xxx IS2: until you (.) feel good.
xxx U1: what happened to you?
xxx S29: uh: I don't know what's on me.
xxx U1: ((undecipherable))
xxx S29: [I took off my glove- what
xxx U1: oh okay
xxx S29: yeah on my glove
xxx ((pause))
xxx IS2: what?
xxx oh sorry
xxx ((laugh)) uh-yea-you- (are waiting) the TLC plate right
xxx S30: um where should I put this does it matter?
xxx IS2: yes just leave it.
xxx S30: just anywhere?
xxx IS2: yes.
xxx S30: okay.
xxx IS2: and uh: right here yeah.
xxx S30: okay thank you.
xxx IS2: sure.
29:13
xxx ((pause))
29:37
xxx S31: can I ask a question?
xxx IS2: yeah.
xxx S31: so this is how mine came out,
xxx IS2: uh huh.
xxx S31: so which point should I use for the RF values?
xxx IS2: RF value okay so: uh:
xxx so this is obvious right?
xxx S31: right [that's ((undecipherable))
COM IS2: [so:

COM for the sample the front.
COM S31: the front?
COM IS2: the front.
COM all the front.
COM S31: all the front?
xxx IS2: yes.
xxx S31: but they're all the same is that okay?
xxx IS2: yes.
xxx S31: okay.

29:59

xxx IS2: because this is your standard this is the product right?
xxx S31: mhm.
xxx IS2: and uh your crystals is product
xxx S31: [oh:
xxx IS2: [so if they have the same value that- so that uh:
xxx proves your reaction is works.
xxx S31: okay.
xxx IS2: okay
xxx S31: thank you.
xxx IS2: yeah
xxx so:
xxx uh:
xxx the-the-the-the point is don't use the middle one because
xxx it- sometimes your-y-y-your spot is-is- circle?
xxx IS2: you get (.) circle? but sometimes
xxx this one right
xxx so if- for this one if you use the circle that's
xxx totally wrong right
xxx S31: right.
xxx IS2: because- the reason why you have this one because
xxx your concentration is too high.
xxx it has a tail.
xxx [right?
xxx S31: [okay.
xxx IS2: concentration is too high
xxx so maybe
xxx if you have uh: (dilute) solution maybe it's only a
xxx only a circle right here.
xxx S31: mhm.
xxx IS2: so this is not (.) the-the thing.
xxx S31: okay.
xxx IS2: okay?
xxx S31: alright.
xxx IS2: yep.

xxx ((pause))
xxx so: uh: we only had the: bigger one
xxx S1: okay.
xxx IS2: okay:
xxx just do this one?
xxx S1: okay.
xxx IS2: okay.
xxx U1: ((undecipherable))
xxx S1: [((undecipherable))
xxx IS2: [so- my suggestion is uh:
xxx he only run the crystals.
xxx U1: yeah.
xxx IS2: and I-I think the best way for you is (.) i-
xxx they can compare the crystals with the standard.
xxx just make sure (.) they are- because
xxx she needs to make sure the crystals is the product right?
xxx so:
xxx the other point it sh-uh this one should be the:
xxx S1: [standard.
xxx IS2: [standard (.) fumerate right?
xxx U1: right I see that but wouldn't it-
xxx cause she has the RF values.
xxx so [((undecipherable))
xxx U2: [it's just RF values
xxx U1: so all you need is the RF value.
xxx when you calculate [right?
xxx U2: [yeah.
xxx U1: do-do you think she actually needs to run the:
xxx y-you don't need ((undecipherable)) here
xxx IS2: [oh
xxx U1: the RF values is [((undecipherable))
xxx S1: [yeah my RF value was um
xxx [point eight eight.
xxx U2: [are they the same for this [and the center
xxx IS2: [oh you
xxx so if-if this have the same value
xxx U2: [as the standard
xxx U1: [((undecipherable)) RF value
xxx IS2: okay it's fine too.
xxx U1: I think it's [fine.
xxx IS2: [fine but-but I think it's-so if they-
xxx uh if they do this one it (it's very clear
xxx right
xxx U1: [yeah yeah yeah

xxx IS2: [((undecipherable))
xxx visually it's very clear right
xxx U1: yeah yeah yeah visually
xxx IS2: so it has to have a ((undecipherable)) right
xxx so yeah it's fine too
xxx U1: yeah
xxx IS2: [as long as they have the-
xxx U2: [don't th((undecipherable))
xxx IS2: it should not.
xxx U1: no they shouldn't.
xxx U2: they shouldn't.
xxx U1: ((undecipherable))
xxx U2: okay
xxx S1: so do we have to cu-um calculate an RF value at the end?
xxx U1: you could calculate it at home if you want.
xxx S1: oh [okay.
xxx IS2: [okay.
xxx U1: just make sure you write your measurements in your lab
xxx notebook.
xxx S1: okay.
xxx U1: so you get the measurements in your lab notebook.
xxx S1: I need the measurements [of all of these
xxx U1: [((undecipherable))
xxx U2: [what is this one
xxx S1: oh that was- I messed that up.
xxx cause it-it fell.
xxx [yeah
xxx U2: [oh: that's why you used the medium one
xxx S1: yeah
xxx IS2: okay just do the melting point right now?
xxx S1: okay.
xxx IS2: okay so yeah.
xxx ((pause))
xxx S32: ((undecipherable)) I don't know what's wrong.
xxx it doesn't wanna filter.
xxx you um the- there's was crystals in the bottom?
xxx so what I did I took it out,
xxx and then like (.) put it here and then um
xxx [((undecipherable)) back again.
xxx IS2: [uh- y-
xxx S32: I don't know why it's not filtering.
32:50
xxx ((pause, can't hear anything))
33:05

xxx IS2: I think [it's fine.
xxx S32: [yeah
xxx [it's fine? it's good now?
xxx IS2: [so:
xxx it's good now,
xxx and just get some,
xxx and dissolve with methylene chloride.
xxx S32: no I already did that.
xxx IS2: you already did that?
xxx S32: uh huh
xxx IS2: okay just start for the last one?
xxx S32: yeah.
xxx IS2: okay.
xxx we don't need to (collect) them.
xxx just discard it to the solid waste.
xxx S32: oh wow.
xxx IS2: okay?
xxx S32: okay.
xxx IS2: so yeah
xxx S32: okay.
xxx IS2: you don't need to do the crystalize- the-th-th-th-the-the
xxx S32: so just discard this?
xxx IS2: discard them
xxx S32: okay [sorry
xxx IS2: [okay as long as you get some.
xxx S32: okay.
33:29
xxx ((pause))
33:50
xxx IS2: so normally
xxx if you (.) put- or- you can use uh-
xxx uh: forceps.
xxx okay.
xxx uh: cover with watchglass.
xxx ((yawns))
34:03
xxx ((pause))
34:40
xxx IS2: hi uh
xxx did you uh:
xxx measure the melting point already?
xxx S33: mhm.
xxx yep.
xxx IS2: okay.

xxx good.

34:50

xxx ((pause))

35:33

xxx IS2: oh it's- it's a very good way.

xxx U2: I know right?

xxx IS2: ((laughs))

xxx I never thought that before

xxx it is very good

xxx just make sure you have all the-

xxx U2: yeah!

xxx IS2: you did that last semester?

xxx S34: yeah

xxx IS2: [cool

xxx S34: [especially when you have like two things

xxx IS2: ((laughs))

xxx S34: (it gets all)

xxx IS2: yes

34:48

xxx ((pause))

36:05

xxx IS2: hi uh

xxx S35: uh you wanna see this with me?

xxx IS2: sure.

xxx sure sure sure sure sure.

xxx ((laugh))

xxx ((pause))

xxx oh [he's

xxx S35: [oh: my god

xxx IS2: it's too concentrated that's why cause so-

xxx so that's why I-I-I told you you need to use [micropipette

xxx S35: [the micro-

xxx [yes oh my god.

xxx but uh: still you can see:-

36:24

xxx ((pause, mic cuts out))

36:56

xxx UV light before you put in a chamber if you don't have-

xxx if you cannot see the: spot on the [origin.

xxx S35: [I did I did

xxx IS2: [you did?.

xxx S35: [um I did see the standard.

xxx IS2: but if- ((mic cuts out))

xxx S35: do it again?

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xxx IS2: no no no I don't think so.
xxx cause if (.) you don't have the (.) two? ten?
xxx uh twenty minutes, right?
xxx S35: I do I do that's the two ten twenty minutes.
xxx IS2: but you don't have right now.
xxx because your reaction is completed.
xxx S35: yeah I don't-

37:20

xxx ((audio extremely spotty; can't really get whole exchange))

38:45