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May 2020

LabChemistry_IS2_20160309_Camera1_Seg01.pdf

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Ethno Studies LabChemistry IS2 20160309 Camera1 Seg01

Setting: IS2 instructs students about the experiment they are about to run.

Participants: IS2 (male, unseen), S1 (male student, unseen), S2 (male UGTA, unseen), S3 (female UGTA, unseen), S4 (female student, unseen), S5 (another female student, unseen)

(0:00)

XXX IS2: uh solvent
XXX whatever you use
XXX because
XXX in the first part
XXX you (need to) use uh hexene
XXX pure hexene
XXX and pure acyl acetate
XXX in a one to one ratio
XXX hexene to acyl acetate
XXX make sure
XXX that all these three solvent
XXX you need a thr- ah
XXX (ten mil)
XXX so for
XXX for example
XXX for this part you need five mil hexene
XXX and five mil acyl acetate
XXX because
XXX don't let this (height too high)-
XXX uh don't let this (height too high)
XXX and uh this is one
XXX uh:
XXX height requirement
XXX and another one is here
XXX so
XXX I think you
XXX maybe
XXX you need a ruler
XXX uh for the first time
XXX to do the (TLC)
XXX make sure
XXX the height is here is
XXX uh:
XXX one centimeter (.1)
XXX ok,

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XXX so
XXX just make sure after you put this uh
XXX TLC
XXX in your chamber (.3)
XXX make sure uh
XXX your-
XXX your- your- your sample
XXX is higher
XXX than the solvent
XXX than the- than than
XXX than the other solvent
XXX ok,
XXX because
XXX if your solvent
XXX is underneath the solvent
XXX your solvent will dissolve
XXX in the- in the
XXX y- your h-
XXX your sample will dissolve in the solvent
XXX (it will) do not go up by the solvent
XXX ok,
XXX make sure the s-
XXX let's do a height requirement
XXX S1: yeah sure
XXX ((pause))
XXX IS2: so uh nothing is uh
XXX so for all-
XXX for all the uh glassware today
XXX don't wash with acetone
XXX or water
XXX even if it's not quite clean
XXX just use uh
XXX (methylene) chloride
XXX don't use acetone
XXX don't use uh
XXX water
XXX to wash all your glassware today
XXX S2: [uh
XXX IS2: [so yeah yeah
XXX S2: can I,
XXX IS2: yeah yeah
XXX S2: guys
XXX one thing I forgot to say is

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XXX the first part of the experiment
XXX you will be working in groups of three,
XXX right,
XXX and ((indistinguishable))
XXX just pick your-
XXX ok=
XXX S3: =just [pick people] who are around you
XXX S2: [yeah]
XXX so that- that means uh one person
XXX does a certain type of solvent
XXX everyone understands that,
XXX make sure you write your partner's
XXX first and last name=
XXX S3: =yes=
XXX S2: =in your lab notebook
XXX please=
XXX S3: =at least two partners
XXX well
XXX yeah
XXX you only have [two partners
XXX S2: [yeah
XXX you have two partners,
XXX write their names down in your lab notebook
XXX that will most likely be a quiz question=
XXX S3: =yeah [that was my quiz question
XXX S2: [I know
XXX it was my notebook quiz question as well
XXX ok,
XXX IS2: so
XXX S2: yeah
XXX IS2: so anoth- another
XXX last w-
XXX last uh:
XXX last thing I need to
XXX uh explain to you is
XXX uh
XXX about this plate
XXX so
XXX uh in total we have
XXX uh
XXX six sample
XXX to uh uh to run
XXX to run the (TLC) today

XXX so
XXX uh
XXX I just
XXX I want to remind you
XXX what's this uh
XXX three spot
XXX so
XXX because it kinda confusing
XXX so when I first have TA
XXX uh last semester
XXX so
XXX this is uh:
XXX standard
XXX so make sure (.) it is
XXX because we have two uh
XXX samples today
XXX we need uh
XXX for the part b we have a reaction
XXX so the reaction is uh
XXX ((pause))
XXX is (relate) to the uh
XXX fumerate (.2)
XXX so
XXX under uh
XXX bromine and cataly-
XXX catalyze reaction
XXX so
XXX so f- for the uh
XXX first part
XXX make sure you use fumerate
XXX not (malate)
XXX ok,
(3:00)
XXX so this is the first standard point
XXX so this is a product
XXX this is your uh:
XXX starting material
XXX because we want to use TLC to monitor
XXX the reaction
XXX for this reaction
XXX so for the first point (.)
XXX use the fumerate
XXX not

XXX uh
XXX malate
XXX ok,
XXX and for the
XXX zero
XXX zero minutes
XXX now which means uh
XXX before reaction starts
XXX you need to uh
XXX (spot)
XXX uh for the zero uh
XXX for the zero minute
XXX which means uh you have uh
XXX flask
XXX you put your uh
XXX malate
XXX this is starting material
XXX inside it
XXX and also you need the solvent
XXX inside it
XXX and then mix them
XXX so
XXX before you add bromine
XXX uh
XXX using your micropipette
XXX get some uh
XXX s- s-
XXX get some uh- some uh-
XXX so- uh sample
XXX uh
XXX to (spot) here
XXX so this is the zero point
XXX if
XXX so for a- uh
XXX the three uh
XXX this
XXX uh:
XXX for this point is
XXX uh
XXX after you add the bromine
XXX inside your flask
XXX after- so you need to record time
XXX after two minutes

XXX you need to get some sample from your flask
XXX to (spot) the for the two minutes
XXX so
XXX ten is for ten minutes
XXX twenty is for twenty minutes
XXX and
XXX (about this) uh:
XXX crystals
XXX so this crystals y-
XXX so
XXX you will get this (clus) of crystals
XXX follow- following the: (.) procedure
XXX after you got your crystals
XXX for this one
XXX so you can-
XXX you can uh use uh crystallization
XXX to get this product
XXX after you get this solid
XXX using uh
XXX using uh s-
XXX uh:
XXX methylene-
XXX methylene chloride
XXX to dissolve your product
XXX (add) a spot here
XXX then you go the whole spot
XXX to run the TLC
XXX to check whether your reaction
XXX is good or not
XXX whether you got your product
XXX or not
XXX because you have standard
XXX you can compare all the-
XXX all other
XXX spot
XXX with this standard
XXX because this standard is a-
XXX your product
XXX so
XXX you can use TLC to m-
XXX to- to find whether
XXX your reaction is work or not
XXX ok, (.1)

XXX so uh
XXX (during uh) if you use bromine solution
XXX try to wear your
XXX uh
XXX heavy gloves
XXX because
XXX it is very toxic and uh
XXX uh
XXX erosive
XXX so
XXX make sure you wear
XXX heavy gloves
XXX ok,
XXX S3: ((indistinguishable))
XXX latex-free gloves here
XXX but when you're using the bromine
XXX there's like heavy duty gloves
XXX near the actual solvent bench,
XXX um
XXX but I wouldn't suggest putting your hands
XXX directly in them,
XXX wear gloves
XXX and then like
XXX use those as second gloves,
XXX yeah
XXX IS2: yeah
XXX and uh one more thing is uh
XXX so
XXX if you use micropipette
XXX so you y- y- y- you
XXX uh the thing is you need to transfer
XXX the solvent
XXX transfer your sample
XXX from y-
XXX from the micropipette
XXX to the TLC plate
XXX so
XXX the thing is
XXX uh after you do the
XXX l- l- the
XXX do the micropipette
XXX o- on your TLC
XXX don't

XXX uh just leave the top of your pipette open
XXX don't uh
XXX cover your
XXX pipette
XXX don't cover your micropipette
XXX don't cover the (.) top of your
XXX micropipette
XXX just do the
XXX uh just uh
XXX u:m

(6:00)

XXX spot- spot- spot where you have
XXX and where you here and here
XXX don't just cover the top of this
XXX ok,
XXX uh:
XXX so: yeah
XXX that's
XXX that's all that
XXX I have to say
XXX so
XXX yeah,
XXX S1: ((indistinguishable))
XXX IS2: what,
XXX S1: ((indistinguishable))
XXX IS2: I think uh
XXX S1: ((indistinguishable))
XXX IS2: they say email it
XXX to all of them
XXX S1: ok
XXX IS2: so
XXX so uh because we have uh
XXX some uh
XXX research today
XXX about how to
XXX uh
XXX international TA interact with uh
XXX your students
XXX so
XXX um uh
XXX be- uh
XXX so just
XXX be uh

XXX relaxed
XXX don't
XXX because I am uh more nervous than you guys
XXX ok,
XXX all: ((laugh))
XXX IS2: just do experiment so
XXX experiment's your focus
XXX don't focus any other things
XXX ok,
XXX so make sure you can finish=
XXX S3: =yeah=
XXX IS2: =uh today's reaction
XXX S2: yeah
XXX just tune them out
XXX [((indistinguishable))
XXX S3: [yeah
XXX S2: ((indistinguishable))
XXX also uh=
XXX S3: =((indistinguishable))=
XXX S2: yeah
XXX also
XXX we're here for you
XXX we believe in you
XXX ((various people laugh))
XXX IS2: yeah
XXX S2: if you need help
XXX we're here
XXX ok
XXX S4: so the um
XXX standard thing
XXX is the fumerate,
XXX S3: yeah
XXX IS2: yeah is the (.) product
XXX you fumerate
XXX not use malate
XXX because we have two standard-
XXX two things right here
XXX just
XXX don't (.) be confused
XXX about these two
XXX ok,
XXX S4: ok
XXX IS2: just follow your procedure

XXX you have

XXX so

XXX this is

XXX yeah

XXX yep

(7:12)

XXX ((pause))

(7:52)

XXX IS2: uh so guys

XXX uh

XXX crystallization report form is due today

XXX I will collect them

XXX uh

XXX S3: guys

XXX uh the crystallization report form

XXX on the benzoic acid product is due today

XXX forgot to mention that

(8:08)

XXX ((pause))

(8:34)

XXX IS2: ((to S2)) you'll keep this=

XXX S2: =[yeah

XXX IS2: [on the pile

XXX S2: yeah

XXX I love this

XXX I love giving these out

(8:38)

XXX ((pause))

(9:33)

XXX S5: are you collecting,

XXX uh

XXX [our reports right now,

XXX IS2: [quiz,

XXX uh: no

XXX S5: oh

XXX IS2: yeah

(9:38)

XXX ((pause))

(10:57)