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May 2020

LabChemistry_IS2_20160309_Camera1_Seg04.pdf

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Setting: IS2 helps students with the lab procedure.

Participants: IS2 (ITA, male, mostly unseen), S1 (student, female, unseen), S2 (student, female, unseen), S3 (student, male, unseen), S4 (student, female, unseen), S5 (student, male, unseen), S6 (student, female, unseen), S7 (student, male, unseen), S8 (student, female, unseen), S9 (student, male, large), S10 (student, male, unseen), S11 (student, female, corn rows), U1 (UGTA, male, black coat), S12 (student, female, light brown ponytail), S13 (student, female, strawberry blonde), S14 (student, male, green shirt under lab coat), S15 (student, female, unseen), S16 (student, female, dark brown ponytail), S17 (student, male, curly hair)

(0:00)

XXX IS2: a- away from the:
XXX u:m
XXX (filter paper)
XXX right?
XXX S1: away?
XXX oh yeah=
XXX IS2: =away from=
XXX S1: =with this=
XXX IS2: =this- this side
XXX not that- that
XXX not your side right?
XXX so:
XXX it doesn't matter
XXX S1: it doesn't matter=
XXX IS2: =yeah=
XXX S1: =ok
XXX this is ok-
XXX IS2: =just make sure
XXX this is ok and then
XXX nothing is
XXX did you check the UV light
XXX before you put [in the
XXX S1: [yeah yeah yeah
XXX I did
XXX IS2: oh yeah yeah yeah
XXX good
XXX S1: and I checked the (RF)
XXX IS2: yeah just wait
XXX so:
XXX uh
XXX maybe
XXX I think
XXX maybe it's quite (near)
XXX so
XXX after you got one centimeter
XXX uh

XXX point-five centimeter
XXX uh:
XXX from the-
XXX away from the top=
XXX S1: =the [top?
XXX IS2: [of the (TLC plate)
XXX S1: oh ok
XXX IS2: and (get at it)
XXX and then make a marker for the (solvent front)
XXX S1: ok
XXX IS2: make a marker,
XXX make sure
XXX don't forget it,
XXX because you need to calculate ((slurred)) rf
XXX r- RF- rf value
XXX S1: I'm gonna- I'm gonna
XXX like
XXX I'm gonna-
XXX like one cm=
XXX IS2: =no point five=
XXX S1: =away=
XXX IS2: =p-point five
XXX S1: point five cm away
XXX I'm gonna mark it
XXX IS2: mark the solvent
XXX S1: mark the solvent
XXX IS2: did you see solvent?
XXX [solvent front
XXX S1: [yeah
XXX solvent ((undecipherable))
XXX IS2: did you see the (diamond ring)
XXX here right?
XXX S1: yeah
XXX yeah
XXX that's the solvent
XXX IS2: that's the solvent front=
XXX S1: =uh huh=
XXX IS2: =and uh
XXX after you get point five
XXX just make a marker for the solvent front
XXX S1: oh ok
XXX yay
XXX IS2: yeah
XXX S1: (alright)
XXX IS2: that's
XXX S1: ((presumably walks away))
XXX ((pause))
XXX S2: ok uh
XXX IS2: hi
XXX uh
XXX so
XXX just a reminder

XXX so
XXX just uh
XXX because you are waiting
XXX right?
XXX so
XXX when you got the solvent front
XXX is
XXX point five centimeter
XXX from the top of your (kit) uh (kit) plate
XXX and just get it out of here-
XXX get it out of here
XXX and make a marker for the solvent front
XXX because
XXX you need to calculate the RF value
XXX so: for
XXX both part a and part b
XXX so:
XXX just don't forget to
XXX mark the solvent front
XXX [ok?
XXX S2: [ok
(1:34)
XXX ((pause))
(1:41)
XXX IS2: hi uh
XXX so
XXX you are waiting,
XXX right?
XXX S3: yep
XXX IS2: so:
XXX do you know where,
XXX you need to put that
XXX when (.) you
XXX S4: it's the point five centimeter mark
XXX right?
XXX IS2: yeah
XXX point five centimeter
XXX from
XXX S4: from the top
XXX IS2: from the top
XXX S4: yeah
XXX IS2: and uh (.)
XXX what's the next (.) thing
XXX you need to do?
XXX S4: and then
XXX you have to measure it
XXX right?
XXX IS2: you measure=
XXX S4: =the RF value?
XXX IS2: yeah
XXX you need to so:
XXX the point is

XXX you need to
XXX mark the solvent front=
XXX S4: =yeah yeah yeah yeah=
XXX IS2: =immediately after you
XXX get out your
XXX TLC plate
XXX don't forget this=
XXX S4: =it's just
XXX just=
XXX IS2: =because the solvent front
XXX will s-
XXX will evaporate
XXX very quickly
XXX if you don't get the solvent front
XXX you cannot calculate the RF value
XXX right?
XXX S4: so by solvent front=
XXX IS2: =y-=
XXX S4: =you mean like...
XXX IS2: did you- did you see the solvent front?
XXX S4: yeah
XXX IS2: did you see the solvent r-
XXX it is right here
XXX right?
XXX S4: uh huh
XXX IS2: a-
XXX you will s- go up right,
XXX S4: yeah
XXX IS2: eventually he will get
XXX point five centimeter
XXX that i=
XXX S4: =yeah=
XXX IS2: =that is our requirement
XXX right?
XXX S4: and that's when I-
XXX IS2: that's for the marker
XXX right here
XXX solvent front
XXX S4: ok
XXX IS2: did you got it?
XXX S4: yeah
XXX IS2: ok
XXX S4: thank you
(2:38)
XXX ((pause))
(2:48)
XXX IS2: did you finish the part a already?
XXX S5: not yet
XXX IS2: uh did you (spot your-)?
XXX S5: yeah I did
XXX IS2: you did?
XXX S5: yeah

XXX IS2: uh you can put in your
XXX chamber
XXX S5: alright
XXX IS2: did you check the UV light already?
XXX S5: yeah I did
XXX IS2: ok
XXX you (got to points loss)
XXX right?
XXX S5: yeah
XXX IS2: ok
XXX so
XXX just the other side of the:
XXX (filter) paper,
XXX ((pause, presumably watches S5 do something))
XXX yeah
XXX cool
XXX so::
XXX you need to wait
XXX until your solvent-
XXX did you see the solvent front is moving,
XXX right?
XXX S5: yeah
XXX IS2: solvent front
XXX after you got a solvent front is
XXX away from (.)
XXX uh (.) point
XXX five centimeter away
XXX the top of your
XXX (electric) plate
XXX S5: yeah
XXX IS2: so get out of here
XXX and make-
XXX make a marker for the solvent front
XXX S5: yeah
XXX IS2: because
XXX if you don't get a solvent front
XXX you cannot calculate rf value
XXX S5: yeah yeah
XXX IS2: so
XXX just a reminders ok (.2)
XXX ((presumably walks away))
XXX ((to student 6)) so far so good?
XXX S6: mm-hmm
XXX IS2: so::
XXX don't forget to m-
XXX mark your solvent front
XXX S6: yeah
XXX alright
(3:43)
XXX ((pause))
(3:56)
XXX IS2: so um

XXX did you
XXX check the:
XXX TLC plate
XXX before you put in you:r
XXX S7: yeah
XXX IS2: ok
XXX you got two spot?
XXX S7: yeah
XXX IS2: ok (.2)
XXX so after you
XXX get out of your
XXX TLC plate
XXX make a marker for the solvent front
XXX S7: oh ok
XXX IS2: ok?
XXX ((pause))
XXX I think it's- it's- it's fine
XXX you can't get out of this
XXX ((pause))
XXX and uh make a
XXX make a marker right now
XXX ((pause))
XXX ((unclear if he switches to S8 at this point or later))
XXX don't wait
XXX just
XXX do the
XXX yeah
XXX it is fine
XXX and uh:
XXX after it is
XXX your plate- TLC plate is dry,
XXX S8: mm-hmm
XXX IS2: and check-
XXX check the UV light,
XXX S8: mm-hmm
XXX IS2: and then
XXX outline
XXX where your spot is
XXX S8: ok
XXX (.2) for both of the
XXX (mystery spot)
XXX S8: mm-hmm
XXX ok?
XXX IS2: ((pause))
XXX ((to S7 again?))
XXX is that good?
XXX S7: I'm just waiting for a little bit
XXX a [little bit longer
XXX IS2: [yeah yeah yeah
XXX a little bit yeah
XXX that's fine
XXX did you got two spots

XXX [before you put in there?
XXX S7: [yeah
XXX I saw uh
XXX I saw two (black) spots
XXX IS2: just (.) solve (.)
XXX uh
XXX also for the part b
XXX so
XXX before you put in your chamber
XXX just make sure you have
XXX because for part b you have
XXX you have six spot- spot
XXX make sure you have
XXX six spot
XXX and then you put in the chamber
XXX S7: ok
XXX ((pause))
XXX IS2: and uh:
XXX after:
XXX you get out your TLC plate and make er-
XXX uh
XXX make your marker for the (TR)-
XXX make a solvent front
XXX yeah
XXX S7: ok
XXX and then we'll wait back here right?
XXX (((indistinguishable)))
XXX IS2: [uh huh
XXX S7: how long ((indistinguishable))
XXX IS2: just use your ruler
XXX yeah
XXX S7: oh just use the ruler?
XXX IS2: yeah
XXX S7: ok
XXX (((indistinguishable)))
XXX IS2: you don't need to-
XXX uh huh
XXX S7: the distance
XXX traveled by the solvent
XXX IS2: yeah the dis==
XXX S7: =so=
XXX IS2: =you just=
XXX S7: =where do I start from?
XXX IS2: oh
XXX S7: should I start from the bottom?
XXX IS2: just the origin
XXX you make em le- right here
XXX right?
XXX you- you you
XXX you
XXX S7: yeah I marked all over it
XXX IS2: for the

XXX o- one centimeter
XXX right?
XXX S7: yup yup
XXX IS2: and thas is your starting point
XXX S7: yup
XXX IS2: and you- you measure from
XXX S7: uh from there
XXX all the way to=
XXX IS2: =all the way to the (solvent front)
XXX and all the way to the spot you have
XXX S7: ok
XXX thank you
(5:58)
XXX ((pause))
(6:03)
XXX IS2: hi uh
COM did you finish
COM the part A already?
COM S9: what?
XXX IS2: did you finish the part already?
XXX S9: yeah
XXX IS2: alright
XXX S9: yeah it's (still) drying
XXX IS2: oh it's just waiting to dry
XXX S9: yeah
XXX IS2: ok
XXX so: (.)
XXX I think it should dry very quickly
XXX S9: yeah
XXX IS2: you can check (this)
XXX S9: yeah
XXX IS2: did you make a marker for the solvent front?
XXX S9: yeah
XXX IS2: oh good
XXX good
XXX S9: yeah
XXX IS2: so just check with the UV light
XXX and outline the spot
XXX where your spot is
XXX S9: ok
XXX IS2: ok?
XXX S10: uh
XXX so for x
XXX I got like a single
XXX kind of dot?
XXX like right here?
XXX and then for y I got a big trail
XXX going to here
XXX IS2: alright [yeah
XXX S10: [does that sound right?
XXX IS2: uh you use pure ethyl acetate right?
XXX S10: yeah acetate

XXX IS2: pure ethyl a- acetate
XXX S10: yup
XXX IS2: then it's- it's good
XXX S10: ok
XXX thanks
XXX IS2: yeah
XXX uh:
XXX yeah
XXX so you finished part a
XXX and uh
XXX you don't need to calculate r for right now
XXX because
XXX r (value)
XXX you can finish uh r (value) after [you finish
XXX S10: [get it out
XXX IS2: [this lab
XXX S10: [((indistinguishable))
XXX IS2: so just do the part b
XXX ok?
XXX S10: ok
XXX IS2: yeah
XXX S10: [thank you
XXX IS2: [just
XXX set up your reaction
XXX and uh:
XXX prepare your TLC plate
XXX S10: uh huh
XXX IS2: yeah
XXX S11: uh I used the ethyl fumerate
XXX and this is what I got
XXX IS2: ((gasp)) really?
XXX S11: yeah
XXX IS2: huh
XXX what solvent did you use?
XXX S11: uh
TTF IS2: pure ethyl acetate? ((slurred, sounds like acyl))
TTF S11: pure what?
TTF IS2: pure ethyl acetate?
TTF or [one-to-one ratio?
TTF S11: [oh sorry
TTF no
TTF I used the um ethyl acetate
TTF IS2: pure ethyl acetate right?
XXX S11: yeah
XXX IS2: so
XXX uh this is your spot in corner right?
XXX S11: yeah
XXX IS2: I don't think that this is too large
XXX S11: no?
XXX IS2: do you have- is this large?
XXX S11: yeah
XXX IS2: really?

XXX S11: I mean
XXX IS2: let's check
XXX ((pause to walk))
XXX uh
XXX I think that for the part-
XXX for the-
XXX for the- for the y it is fine because
XXX it has higher concentration right?
XXX S11: ((tentatively)) yeah
XXX IS2: so it should be very (.)
XXX concentrated and large
XXX but if
XXX I'm not sure what- for the
XXX x
XXX S11: I spotted it twice
XXX IS2: uh:
XXX for- for- which?
XXX S11: for the x
XXX IS2: for the x
XXX right?
XXX S11: yeah
XXX IS2: for the y
XXX it's ten times
XXX right?=
XXX S11: yeah
XXX IS2: ok
XXX so
XXX u:m
XXX ((pause))
XXX oh so the thing is
XXX for ten times
XXX did you (.) not uh
XXX not uh
XXX did you uh:
XXX spot the y fo:r (.)
XXX ten (.) tubes?
XXX not for tu- not- not
XXX ten tubes
XXX I mean
XXX if you finished the one
XXX first tubes
XXX did you
XXX [uh get
XXX S11: [yeah=
XXX IS2: =get- get
XXX get in the next one?
XXX and do the
XXX [other- other] [finish
XXX S11: [the] [yeah
XXX IS2: all the tubes
XXX all the solvent
XXX in the tubes

XXX (is that) you?
XXX S11: no
XXX I-I
XXX i
XXX spotted it
XXX and then put it back
XXX and then I spotted it
XXX IS2: put it back
XXX I- I mean
XXX uh
XXX did you go ten times of the solvent
XXX fro-from the=
XXX S11: =the ethyl=
XXX IS2: =from here?
XXX S11: yeah
XXX IS2: you go ten times from here?
XXX S11: yes
XXX IS2: oh th-
XXX so
XXX my point is
XXX just do ten times
XXX not ten times from your solvent
XXX or from the sample
XXX S11: so do I dip it once
XXX and then just?
XXX IS2: spot it here
XXX one (.) two (.) three (.) four=
XXX S11: =oh:
XXX IS2: not
XXX get it
XXX ten times
XXX from here
XXX so is fine
XXX so that's why you get
XXX so concentrated
XXX S11: ((giggling)) ok
XXX IS2: it's too la-
XXX it's too much
XXX S11: ok
XXX IS2: yeah
XXX so b-
XXX but I think it's fine
XXX yeah
XXX S11: ok
XXX IS2: uh
XXX U1: you don't think she has to do it again
XXX right?
XXX IS2: ((blank stare))
(9:00)
XXX U1: she shouldn't have to do this one plate again
XXX IS2: so
XXX if you have time you can do this

XXX but uh for now
XXX just do- [proceed
XXX S11: [part b?=
XXX IS2: =part b ok?
XXX oh uh also for part b
XXX so
XXX it's- it's the same
XXX don't do ten times
XXX don't l- ((indistinguishable))
XXX for part b=
XXX S11: =just
XXX just do it once
XXX and then=
XXX IS2: [yeah
XXX S11: [spot it
XXX IS2: just use one- one uh=
XXX S11: =one (capillary)
XXX to spot it
XXX IS2: do t- do ten times
XXX not ten times fro:m the: sample
XXX S11: ok
XXX IS2: yeah
XXX S11: alright
XXX IS2: that's why you got so large
XXX S11: ok
XXX IS2: ok?
XXX S11: thank you
XXX ((walks away))
XXX IS2: ((walks up to S12))
XXX so hi
XXX uh
XXX did you
XXX prepare your:
XXX TLC plate already?
XXX S12: yeah
XXX I am waiting to-
XXX IS2: oh you are waiting
XXX ok
XXX S12: yeah
XXX IS2: [just ch-
XXX S12: [((indistinguishable)) ((pointing))
XXX IS2: make sure you check
XXX S12: yeah
XXX IS2: uh:
XXX S12: um
XXX IS2: ok
XXX so for now I think uh:
XXX during your waiting right?
XXX S12: yeah
XXX IS2: you can prepare for your part b
XXX because they are independent
XXX S12: ((nodding)) yeah

XXX IS2: you don't need to rely on the results of part a
XXX to do the:
XXX part b
XXX so you can
XXX you can set up
XXX u:m
XXX you can prepare your TLC plate
XXX for- f=
XXX S12: =ok=
XXX IS2: =first
XXX but uh:
XXX before you finish the part a
XXX uh
XXX before you set up your reaction
XXX so:
XXX you need to finish part a
XXX because
XXX S12: really?
XXX IS2: because you need to calculate a time
XXX for the part b
XXX so::
XXX S12: yeah
XXX [just a
XXX IS2: [just
XXX S12: I mean uh
XXX I could do this
XXX IS2: you can do this=
XXX S12: =but=
XXX IS2: =just don't do the=
XXX S12: =yeah=
XXX IS2: next step
XXX [after you finish this one
XXX S12: [this will
XXX that'll be quick though
XXX so I mean
XXX well
XXX IS2: yeah
XXX S12: I'm just answering some
XXX IS2: yeah yeah yeah
XXX S12: you know what I mean?
XXX IS2: did you put p- uh:=
XXX S12: =yeah-
XXX IS2: did you m- mark the front?
XXX S12: yeah
XXX IS2: mark the solvent front?
XXX S12: yeah
XXX IS2: where is the mark uh: the solvent front?
XXX S12: the origin line?
XXX IS2: >no no no<
XXX I mean
XXX did y-
XXX because after you put the TLC plate

XXX on the (TLC-)
XXX on the:
XXX oh the chamber right
XXX you see the solvent front
XXX you see the solvent is (.) moving
XXX S12: oh: we were supposed to put it in?
XXX IS2: no
XXX t-
XXX y-you put it in already right?
XXX S12: no: n-n-n-no
XXX IS2: oh
XXX you (should) spot x y here right?
XXX [you don't put the
XXX S12: [no
XXX I put the fumerate (.2)
XXX IS2: yeah yeah i-i-it's
XXX it's right
XXX I mean
XXX [did you put th-
XXX S12: [like I put the drops
XXX IS2: did y-
XXX did you put the TLC plate
XXX in the:
XXX [in the chamber?
XXX S12: [no: n-n-n-n-no
XXX I just have the-
XXX but I haven't put it in yet
XXX IS2: uh
XXX what are you waiting for?
XXX S12: oh am I supposed to put it in?
XXX IS2: of- sure
XXX S12: oh ok
XXX ((giggles))
XXX IS2: ((giggles)) so
XXX you confuse me right
XXX S12: I was the-
XXX [use the UV light
XXX IS2: [because I
XXX S12: first=
XXX IS2: =oh=
XXX S12: =do I
XXX IS2: you don't check the UV light or=
XXX S12: =until after?
XXX IS2: oh
XXX I thought
XXX you- you can check that first
XXX S12: oh you can?
XXX IS2: but um
XXX I just want to make sure
XXX you have two spot
XXX on the origin
XXX [of these two sides

XXX S12: [yeah
XXX I put one drop here
XXX IS2: [ten time
XXX S12: [and ten drops here
XXX IS2: ten drop?
XXX S12: yeah
XXX IS2: so
XXX yeah uh
XXX S12: now put it in?
XXX IS2: just wait
XXX because
XXX you need to check the UV light
XXX before you put it in there
XXX S12: yeah yeah yeah
XXX that's what I was waiting for=
XXX IS2: =oh=
XXX S12: that's why I was answering
XXX I'm waiting for the light
XXX and then as soon as I check it
XXX I'll put it in
XXX IS2: ok
XXX so you are right
XXX S12: ((laughs))
XXX IS2: ((pause, walks over to S13))
XXX ((to S13)) did you finish part a?
XXX S13: yes
XXX IS2: you got two spot where?
XXX where is the spot?
XXX you use uh hexene?
XXX S13: mm-hmm
XXX IS2: hexene?
XXX S13: mm-hmm
XXX IS2: ok
XXX S13: (to do it)
XXX but I have to measure it
XXX right?
XXX IS2: you don't measure it right now
XXX S13: ok
XXX IS2 you can (.)
XXX bring this- (.)
XXX bring this (.) after you finish
XXX today's [experiment?
XXX S13: ((brightly)) [oh ok
XXX good ok
XXX IS2: yeah
XXX oh
XXX so
XXX so the thing is
XXX you need to outline
XXX you need to: (.)
XXX get the:
XXX (.2)

XXX same scale
(12:00)
XXX of this TLC plate
XXX on your carbon pages
XXX because we need to collect the result
XXX S13: [ok
XXX IS2: [but you don't need to calculate r value
XXX S13: ok
XXX IS2: so
XXX [yeah
XXX S13: [so
XXX just draw it=
XXX IS2: =draw=
XXX S13: =here
XXX IS2: and draw here
XXX and uh where your spot is
XXX where your solvent front is
XXX that's (.) the same
XXX S13: ok
XXX ((pause))
XXX S14: ((walks over))
XXX IS2: ((turns to S14))
XXX where's your spot?
XXX S14: oh
XXX right here
XXX IS2: yeah
XXX right here
XXX alright
XXX S14: yeah
XXX IS2: cool
XXX ok
XXX so
XXX you finished part a
XXX just do the part b
XXX oh-oh-ok
XXX S14: do I have to calculate the r value?
XXX IS2: no no no
XXX you don't need to calculate right now
XXX S14: oh ok
XXX IS2: you can calculate
XXX after you finish the experiment
XXX S14: ok
XXX IS2: because
XXX we don't need to: (.)
XXX know the result of the r value today
XXX S14: oh ok
XXX IS2: so yeah and uh:
XXX S14: so I should start part b right now?
XXX IS2: yeah you can start part b right now
XXX but keep this
XXX S14: yeah yeah yeah

XXX IS2: because we need to connect this
XXX and also you need to uh
XXX measure
XXX the distance
COM of ((points)) here
COM and here
COM ok?
COM S14: of where and where?
COM the origin to this?
XXX IS2: the origin to this-
XXX to the solvent [front
XXX S14: [yeah
XXX IS2: and this is the:: (.2)
XXX right?
XXX S14: yeah that's this
XXX IS2: and uh for this,
XXX is
XXX [uh:
XXX S14: [to the top of this
XXX right?
XXX IS2: I think
XXX u::m (.2)
XXX S14: [just
XXX IS2: [at the top top top
XXX the top
XXX right here
XXX and right here
XXX S14: oh ok
XXX IS2: they are the same right?
XXX S14: yeah
XXX IS2: yeah
XXX [because
XXX S14: [(thank you)
XXX IS2: the
XXX so
XXX the difference between these two
XXX is just the concentration
XXX they are the same thing
XXX right?
XXX so the it should
XXX have got very similar rf value
XXX ok?
XXX S14: alright
(13:26)
XXX ((pause))
(13:40)
XXX IS2: uh hi
XXX you don't need to calculate (.) r
XXX for right now
XXX S15: oh:
XXX IS2: just do the
XXX part b

XXX ok?
XXX S15: ok
XXX IS2: [just make sure you can [finish the
XXX S15: [thank you [is this a good=
XXX IS2: =because=
XXX S15: RF?
XXX 88
XXX IS2: uh
XXX you used uh:
XXX pure ethyl acetate right?
XXX S15: oh this is for the=
XXX IS2: =w-w-=
XXX S15: =dimethyl fumarate
XXX IS2: I mean which solvent do you use to:
XXX [run the
XXX S15: [ethyl acetate
XXX IS2: pure ethyl acetate
XXX [right?
XXX S15: [yeah
XXX IS2: ok
XXX yeah it's fine
XXX S15: ok good
XXX IS2: so: for now
XXX you don't need to calculate right now just p-
XXX S15: can't we do that later?
XXX IS2: you can do that later
XXX because part b
XXX you need a lot of time
XXX yeah
XXX ((pause))
XXX just keep your plate
XXX keep your plate
XXX because we need to calculate all the plate
XXX tlc plate
XXX S15: these plates right?
XXX IS2: yeah all the plate
XXX you did
XXX ok?
(14:30)
XXX ((pause))
(14:42)
INT IS2: n-u::m
INT S16: sorry?
XXX IS2: so
XXX did you finish part a already?
XXX S16: yeah
XXX IS2: ok
XXX uh::
XXX you can set up the
XXX reaction
XXX for the part b
XXX right

XXX S16: oh it's right here
XXX IS2: in the::
XXX Erlhen flask
XXX S16: it's done
XXX IS2: ((surprised)) oh
XXX you got
XXX you put two: things,
XXX already?
XXX S16: yeah
XXX and I spotted at zero=
XXX IS2: =zero?=
XXX S16: =and added ten drops
XXX IS2: good job
XXX S16: yeah (.2)
XXX ten drops of 10% ((indist.)) right?
XXX IS2: yes
XXX S16: good
XXX so add it to here?
XXX cork here?
XXX IS2: swirl
XXX appropriately
XXX at the
XXX regular time
XXX S16: ok
XXX and then ((indist.))
XXX ((walks away))
XXX IS2: swirl every two minutes
XXX swirl your
XXX flask
XXX ((turns towards S17))
XXX S17: uh:
XXX I have a cork for the,
XXX 50 milliliters?
XXX IS2: uh huh
XXX don't wash your (.) flask
XXX S17: ok
XXX IS2: uh huh
XXX S17: um
XXX but not for the 25
XXX this won't fit
XXX IS2: it doesn't fit right?
XXX S17: yeah
XXX IS2: bu:t
XXX it-
XXX suppos-
XXX suppo- uh
XXX you are supposed to use
XXX ah::
XXX 25 right?
XXX S17: yes
XXX IS2: but you don't have 25 right?
XXX S17: [I- I have it

XXX IS2: [you have it but it doesn't fit
XXX right?
XXX S17: yeah
XXX IS2: so uh
XXX (.2)
XXX uh uh:
XXX you can
XXX you can check
XXX whether you have
XXX uh the cork
XXX for
XXX for your
XXX this one
XXX so if you
XXX if it
XXX any doesn't
XXX if all the cor
XXX it doesn't fit
XXX just using
XXX 50 mil
XXX S17: ok
XXX IS2: yeah
XXX 50 mil
XXX do you have only?
XXX S17: I have only the 25 and the 50
XXX but only a cork for the 50
XXX IS2: what's this cork?
XXX S17: yeah
XXX that works with the 50
XXX IS2: we have new cork right here
XXX S17: oh ok
XXX IS2: you can check new cork right here
XXX ok?
XXX S17: thanks

(16:04)