May 2020

# LabChemistry_IS2_20160330_Camera1_Seg11.pdf

**Setting:** Nearing the later half of the chemistry lab.
**Participants:** IS2 is the boy with short black hair. S1 is the girl with blonde hair. S2 is a girl voice. S3 is a guy voice.

Xxx IS2: just (.) you have the funnel,
Xxx you can transfer with the funnel,
Xxx and ((does something))
Xxx and stay in this funnel is ok too,
Xxx you can use the same ((unclear)),
Xxx yea this one yea. ((sniffs))
Xxx you just so basically
Xxx (you need to do is)((said really fast))
Xxx you transfer (this) solution.
Xxx S1: mhm
Xxx IS2: into the funnel.
Xxx and uh you you rinse the (20 mil ether).
Xxx you rinse this with (20 militer).
Xxx S1: uhuh
Xxx IS2: rinse the ((unclear)) because you still have some-
Xxx you know.
Xxx S1: ((unclear))
Xxx IS2: (ether)
Xxx S1: ((unclear))
Xxx IS2: I think that one should be.
Xxx that one
Xxx S1: oh the blue yea yea yea
Xxx IS2: ((moves towards something))
Xxx this one ok
Xxx S1: the 20 militers
Xxx that’s ether right?
Xxx IS2: yea that’s ether.
Xxx S1: and then-
Xxx IS2: you rinse with ether and yo- yo- you put the rinse
Xxx [into the here,
Xxx S1: [in here
Xxx IS2: and then add=
Xxx S1: =add the water=
Xxx IS2: =in here too
Xxx and uh sh: shake

Xxx do you know how to use funnel?
Xxx S1: no
Xxx IS2: I can show you?
Xxx can you give me a stopper?
Xxx ok.
Xxx so aft- all- all the solution inside this right.
Xxx S1: yea
Xxx IS2: you close this and like this way,
Xxx shake it,
Xxx S1: k
Xxx IS2: then vent
Xxx because
Xxx [after during the
Xxx S1: [((unclear))
Xxx IS2: open close ok?
Xxx S1: yea
Xxx IS2: shake it.
xxx close=
Xxx S1: =open ((nod))
Xxx IS2: open shake
Xxx for at least 4 times.
Xxx ok?
Xxx S1: ok
Xxx IS2: after you finish that
Xxx you put into the= ((moves to put))
Xxx S1: =(the ring)
Xxx IS2: [into the (ring) ok?
Xxx S1: [yea
Xxx IS2: ((unclear))
Xxx and remember lu- li- uh take the stop out.
Xxx S1: oh ok
Xxx IS2: and you got two layer.
Xxx the top layer (.) is the organic layer.
Xxx we need the organic layer.
Xxx and the the bottom layer is [((name)) layer.
Xxx S1: [((name))
Xxx IS2: ((unclear)) water,
Xxx you need to prepare two funnels,
Xxx uh you (need to prepare) two flask,
Xxx one is for organic layer,
Xxx the other is for organi- uh ((name)) layer,

Xxx and for organic layer it just-
Xxx for the ((name)) layer
Xxx you just leave it- le- le- leave- leave it.
Xxx S1: yea
Xxx IS2: don’t discard them.
Xxx just leave it.
Xxx S1: just leave it
Xxx yea
Xxx [so the bottom
Xxx IS2: [and don’t
Xxx S1: will be the water right?
Xxx IS2: yea we need (.) top layer.
Xxx S1: yea
Xxx IS2: ok
Xxx for the ((name)) lay- organic layer,
Xxx add the sodium carbonate.
Xxx because we have the acid inside this.
Xxx we need to use aids
Xxx to remove the-
Xxx S1: yea
Xxx IS2: to neutralize the acid.
Xxx we don’t want acid right?
Xxx S1: yea
Xxx IS2: acid is our sida- (.) thing.
Xxx S1: mhm
Xxx IS2: do you know what I mean?
Xxx S1: yea!
Xxx IS2: yea
Xxx S1: and then you wanna add (wa the:)
Xxx IS2: so you add the sodium carbonate inside your-
Xxx uh
Xxx organic layer,
xxx which is in your flask right?
Xxx and uh (.) mix with the (bar),
Xxx you stir, (.)
xxx you can use a stirrer to mix them,
Xxx and then,
xxx after stirring,
Xxx you transfer all the solution in the funnel again,
Xxx and do the separation again,
Xxx S1: yea

Xxx IS2: and you got ((unclear)) layer,
xxx and you got organic layer,
Xxx for the organic again,
Xxx add the sodium carbonate again,
Xxx at least two times,=
Xxx S1: =ok
Xxx IS2: so so so the thing is
Xxx you need to check the ((name)) layer
Xxx until(.) the ((name)) layer is basic.
Xxx so if it is basic
Xxx that means the acid is removed completely,
Xxx and you ((unclear)) organic layer,
Xxx and you do ((unclear)).
Xxx S1: so do the (litmus) paper.
Xxx IS2: yes
Xxx and for the organic layer,
Xxx you need to-
Xxx after you got-
Xxx after you do several times right?
3:00
Xxx un-until the
Xxx ((unclear)) is basic right?
Xxx so you got organic layer.
Xxx uh a add the drying agent.
Xxx because you still have some you know-=
Xxx S1: =yea
Xxx IS2: water.
3:12
Xxx a tiny amount of water.
Xxx inside your organic layer.
Xxx S1: ((name))
Xxx IS2: =((name)) which is drying agent.
Xxx ok?
Xxx S1: ok.
Xxx IS2: is that clear to you?
Xxx S1: >yea yea<
Xx IS2: ok
Xxx S1: um I was gonna >what was the word<
Xxx oh do I need to (freeze) this?
Xxx IS2: no you don’t have to.
Xxx S1: ok

Xxx IS2: ok?
Xxx S1: ok thank you.
Xxx IS2: do right now.
Xxx ((sighs as he walks away))
Xxx hi u:h
Xxx you can take the-
Xxx take the stop out.
Xxx when you when you do the separation.
Xxx I mean ri- right now you are separating two layers
Xxx right?=
Xxx S2: =yea
Xxx IS2: so just get it out.
Xxx S3: is this (enough to dry it)?
Xxx IS2: I think so.
Xxx just u:h (.)
Xxx yeah I think so.
Xxx it-it is so:dium sulfate right?=
Xxx S3: =yea
Xxx IS2: mm
Xxx S3: (too much in here)
Xxx IS2: it doesn’t matter
Xxx S3: it doesn’t matter
Xxx IS2: yea
Xxx S3: oh ok
Xxx IS2: so: yea