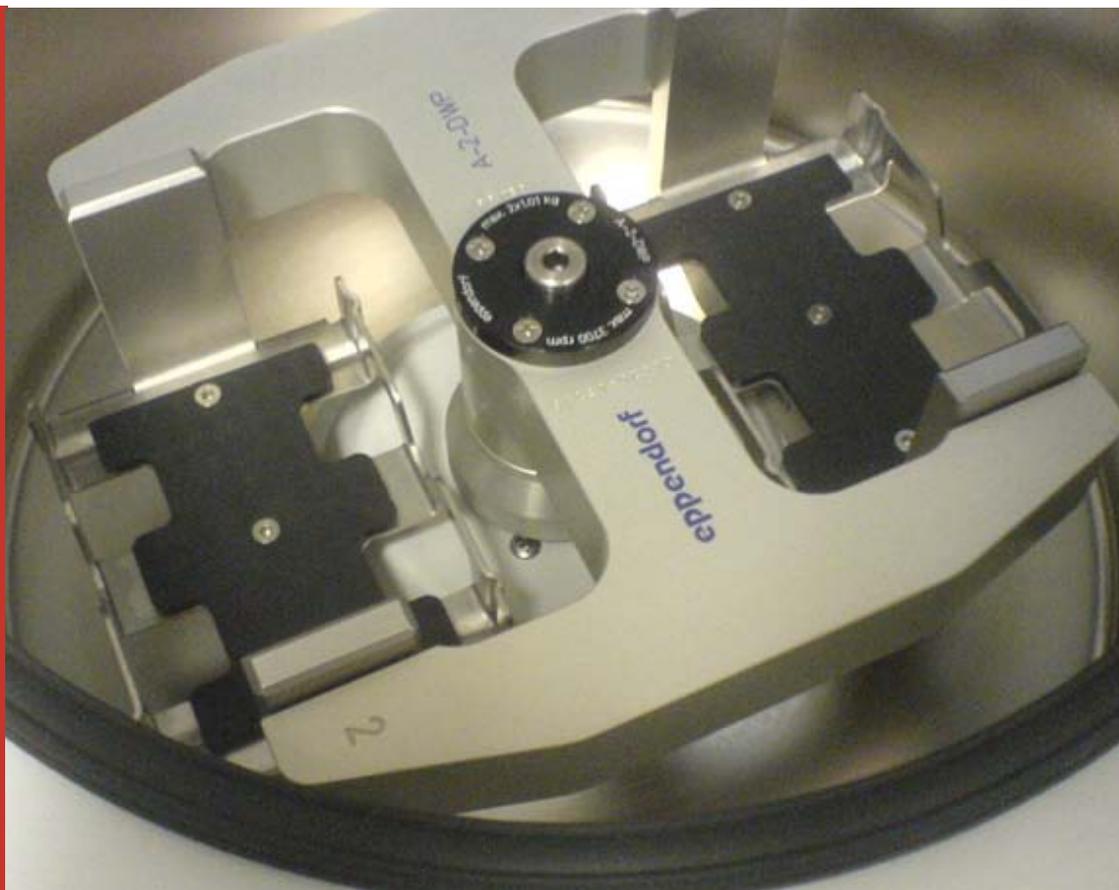


OZONENEWS

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Using our Ozone Free room you can now do your final wash and drying steps in a relaxed manner, with no danger of losing Cy5 signal due to ambient ozone.



How to dry your microarray slides and keep your Cy5 signal

By Robert Marinelli

This protocol is based on our [Good, Cheap Kludge](#)¹ ozone free room plans and the use of an Eppendorf Centrifuge model 5804 to dry microarray slides. Please see [The Ozone Annihilator](#)² for a detailed explanation of how ozone can destroy the Cy5 dye.

Our centrifuge is on a rolling cart. About an hour before your washes, make sure the centrifuge is in the



ozone free room. While you are there, find the BlueAir Purifying System with ozone catalyst and rotate the switch to **MAX airflow**.

¹ available at <http://cmgm.stanford.edu/pbrown/protocols/OzoneNewsVoll.pdf>

² available at http://cmgm.stanford.edu/pbrown/protocols/Ozone_Prevention.pdf

Verify that you feel air blowing out the front, top and back of the air cleaner. Position air cleaner so it circulates air around room.

As you leave the room, be sure the door closes securely.

[optional - turn on Teledyne ozone monitoring meter if it is in the room]

Wash slides on bench as usual.

Bring final wash bucket with slides submerged in wash solution and a set of matching balance slides (if needed) into ozone free room and place final wash bucket on bench.

Turn on Eppendorf 5804 centrifuge (green power button, lower left of front panel)

Press blue OPEN button on centrifuge, lift cover.



Press Speed button until it shows a * and a number. When Speed shows something like *70 that means 70 RCF which is the same as 70g. If it does not show *70 then press Speed until it shows *something and then use the up and down arrows to make the number *70.

Note that you want the * or you will be seeing rpm instead of rcf.

Next, press the time button. Press it a few times and you will notice that there are three indications for ramp-up, ramp-down and time. We are using a ramp up of 5, a ramp down of 5 and a duration of 5 minutes.

So, press time a few times. If any of the choices are not 5, use the up and down arrows so they are all set to 5. This gives you a ramp up of 5, a ramp down of 5 and a duration of 5 minutes.

Next, you have a choice. You can load the centrifuge in place, or you can

lift the centrifuge buckets out and load them on the bench, then transfer back into the centrifuge. Be sure the stainless trays are in each bucket to avoid spraying liquid.



In either case, you will first fold some paper towels to fit each tray. Then when all is ready, quickly transfer your slide rack from the final wash into the centrifuge bucket. Place in centrifuge.

Be sure that you have good balance. Same racks, same number of towels, same number & position of slides.



Close centrifuge, press "start" button, watch speed display, it will start up and reach 70rcf in a while. After 5 min. it will slow down, and it will beep when done.

After you hear the beep, press the "open" button and carefully lift out either the bucket + slides or just your slides, which ever you find easier.

Place slides in a closed box and take them to your microarray scanner, which should be in an ozone-free enclosure (see [The Ozone Annihilator](#)). Please also turn off catalyst blower and centrifuge when all done.