

# 2-34 Spot Assay

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FRIDAY, 2020-02-14

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Goals:

1. Find out the prevalence of petite mutations in the dominance lines . When we previously did a spot assay on lines 35, 46, 35x35, and 35x46, none of the lines grew on YPG.
2. Ensure that line order is correct.

Spot on YPAD, YPG, and YPAD-G418 plates. Use dominance samples from fridge stock. Use 10 µL of undiluted sample.

MONDAY, 2020-02-17


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Matthew took plates out of incubator and marked the plates and uploaded the results to the knockout records in dropbox.

Some evidence of contamination on at least 1 plate, maybe more. Some plates have spots with strange phenotypes - colonies within the spots, very red, etc.


- line 28: has small yellow colonies within the grown spot on ypg and ypad.
- line 115: only 2 colonies on ypad+g418
- line 123: very high growth compared to other spots on ypad and ypg, yellowish and glossy - potential contamination.
- line 134: contamination - large and hairy. It grew into 129 but you can still see 129 growth. Can't tell if 134 grew at all though.
- line 6x96: small yellow colonies present in the spot on ypg.
- Line 66x66 - 71x96 plate: lots of little satellite colonies.
- line 67x93: lots of little colonies on ypad+g418 instead of a spot.
- line 73x73: very pink appearance on ypad and ypg.
- **line 115x20: did not grow, but I don't think it was spotted in the first place.**
- line 77 control has a single small colony on ypad+g418. Growth or no?

Some plates have 'satellites', but I think they may just be from droplets.

- ☒ Spot lines 115x20, 67x93, 134, and 123 again on ypad, ypg, and ypad+g418.  **Matthew Stasiuk** From freezer stocks aliquot 1.

## Linnea analyses the results

RDH status: only two aberrant cases. Line 115 and line 67x93 are both supposed to be wildtype at the RDH locus, but had small spots on YPAD + g418.

Can  **Matthew Stasiuk** respot lines 77, 115, and 67x193 from freezer cultures? Else Linnea can do tomorrow :)

WEDNESDAY, 2020-02-19

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- ☒ Spot assay from monday needs extra day of growth for ypg and g418.

THURSDAY, 2020-02-20

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- ☒ Check spot assay.

