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Sensitivity and specificity test of toehold

Forked from Sensitivity test of toehold

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1 Works for me This

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Preparation

- 1 Sterilize the bench, and put on a labmat
- Thaw the reagents including 1. DNase/ RNase free water (store in -20°C) 2. solution A (store in -80°C) 3. solution B (store in -80°C) 4. RNase inhibitor (store in -20°C) 5.toehold switches with invertase DNA (store in 4°C) 6.miRNA as the trigger (store in 4°C) 8 On ice

Protocols

2h 30m 20s

- 3 Gently shake and spin down the tube before adding (especially solution A and DNA plasmid)
- 4 Add below reagents in to PCR tubes in order:
 - 1. ddH2O(till totally **3 μl**)
 - 2. solution A **22 μl**
 - 3. solution B **□1.5** µl
 - 4. inhibitor **□0.2** µI
 - 5. toehold switches with invertase DNA **50** ng
 - 6. miRNA **350** ng or **30** ng (depends on whether its control group or test group)

Centrifuge © 00:00:20 © 4000 rpm

Place the PCR tubes in the dry bath incubator § 37 °C © 02:00:00

Put the PCR tubes § On ice after 2 hours

Measure the glucose concentrations of each PCR tubes by glucometer

Put the PCR tubes in the dry bath incubator § 55 °C © 00:30:00

Measure the glucose concentrations of each PCR tubes by glucometer again

10