

DIGITAL LAB NOTEBOOK OF KEVIN MURRAY

HONOUS PROJECT, 2013

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2013-01-21

1 Practice RNA Extraction

1.1 Quantification of RNA samples

Aim

- Determine qty of RNA in previously extracted samples

Method

- Nanodropped RNA extraction from 15/1/13??
- Standard protocol, used sterile milliQ water as blank.

Result

- Of the 14 samples, 10 had reasonable amounts of RNA, and 260/280 ratios were above 1.8 in all but one case. (see ./jan/20130121-PracticeRNASamples.ods)

Attachments

- ./jan/20130121-PracticeRNAExtractionSamples.csv
- ./jan/20130121-PracticeRNAExtractionSamples.ndv
- ./jan/20130121-PracticeRNASamples.ods

2 MADE: 10x MOPS Solution

Method

- Add 41.8g RNA only MOPS to beaker
- Add 450mL DEPC H₂O, mix w/ stirrer bar on mag stirrer
- Add 26.6mL 3M Sodium Acetate (0.22um Filtered before use)
- Add 10mL RNA only 0.5M EDTA
- pH to 7 with 5M NaOH
- Top up to 500 mL with DEPC H₂O
- Use 10ml per 100mL MOPS gel

3 MADE: RNA Denaturing Gel (MOPS)

Method

- Melt 1g RNase-free Agarose in 72ml DEPC H₂O
- Add 10mL 10x MOPS
- Add 18mL 37% Formaldehyde
- Pour in RNA-only gel tank, previously washed with 0.5% SDS and RNase-zap