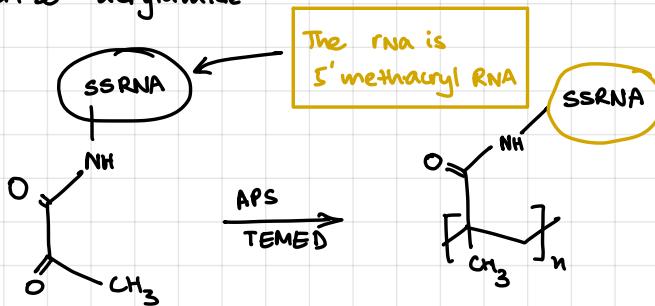



Synthesis reaction 2

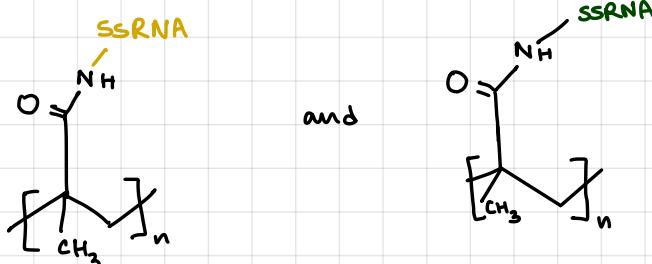
This method is used when initial concentration of microRNAs monitored is zero but are significantly upregulated in the sample during diseased conditions

Polyacrylamide gel

Polyacrylamide RNA gel is formed using Ammonium persulfate (APS) and Tetramethylethylenediamine (TEMED), used to catalytically polymerize acrylamide.



Here we are using two kinds of SSRNA.
so there are two pre-gel monomers that are produced



represents two kinds of RNA. We need to synthesize two kinds of RNAs with polyacrylamide gel backbone
The sequences are as follows:

5' methacryl modifications → in RNA (=? → what is the reaction scheme)

The sequences of RNA is as follows:



(can we do a GTC motifs for stronger binding?)



linker DNA is as follows:

5-nt linker AAUAA



complementary
to RNA motif

1

complementary
to RNA motif 2

