

## Quantify the RNA

1. Prepare a blank in micro centrifuge tube (498  $\mu$ l DNase/RNase free water + 2  $\mu$ l elution buffer)
  2. Sample (498  $\mu$ l water + 2  $\mu$ l RNA (premixed))
  3. Vortex sample
- Leftover RNA add 20  $\mu$ l ammonium acetate, 200  $\mu$ l EtOH 100%, store at -20°

## Take reading

BioRad Smart Spec 3000

1. Press DNA/RNA button :enter
2. yes: enter
3. turn on vacuum and rinse cuvette with distilled water
4. add 500  $\mu$ l of blank in to cuvette and take blank reading {press read blank}
5. empty contents in to vacuum and rinse
6. add 500  $\mu$ l of sample into cuvette and take a reading {press read sample}
7. empty contents into vacuum and rinse
8. print : 3 full report : exit assay : turn off
9. calculation: in excel

RNA concentration =  $A_{260} \times 40x$  dilution factor

Purity =  $A_{260}/A_{280}$ , Purity should be between 1.8-2.0