Calculating Concentration of Ribosomes and rRNAs

70S   1 A_{260} = 23 pmol/ml = 62 ug/ml
                      1 pmol= 2.7ug
                      1 ug = 0.37 pmol
                      Mr = 2.7 MD

50S   1 A_{260} = 35 pmol/ml = 62 ug/ml
                      1 pmol= 1.8 ug
                      1 ug = 0.56 pmol
                      Mr = 1.8 MD

30S   1 A_{260} = 69 pmol/ml = 62 ug/ml
                      1 pmol= 0.9 ug
                      1 ug = 1.11 pmol
                      Mr = 0.9 MD

23S RNA   1 A_{260} = 42 pmol/ml = 40 ug/ml
                      1 pmol= 0.96ug
                      1 ug = 1.04 pmol
                      Mr = 960 kD

16S RNA   1 A_{260} = 78 pmol/ml = 40 ug/ml
                      1 pmol= 0.51 ug
                      1 ug = 1.96 pmol
                      Mr = 510 kD

tRNA^{Phe} 1 A_{260} = 1.71 nmol/ml = 57.5 ug/ml
                      1 nmol= 33.6 ug
                      1 ug = 30 pmol
                      Mr = 33.6 kD