Calculation of Working Molar Concentration for TPA

1 mg $= 10^{-3}$ g 10 mg $= 10^{-2}$ g

mwt = 616.8 g

$x = 10^{-2}$ g / 616.8 g/mol

$x = 1.6 \times 10^{-5}$ mol

2000 x Stock Solution = 0.1 mM (10^{-4} M)

$y = 1.6 \times 10^{-5}$ mol / 10^{-4} mol/l = 0.162 l

= 162 mls

0.1 mM at 1/2000 x => 50 nM

0.01 g/162 ml = 0.061 mg/ml = 61.7 g/ml

≃ 30.8 ng/ml (Stock solution)

For a Conc. of 0.1 mM resuspend in 162 mls

* I resuspended film of TPA in 1 ml of 100% EtOH.

= 162 more concentrated

Aliquot into 10 µl quantities and add 1610 µl 100% EtOH to each tube to give a final Conc. ≃ 0.1 mM (2000 x)

Cyclosporin Concentration for T cell suppression in Primary B lymphocyte Isolation.

0.1 µg/ml → 0.5 µg/ml (No dilute) in RPMI/FBS

0.5 µg/ml → 0.5 µg/ml

(3 µl in 20 mls)

Cyclosporin