**10 x PCR buffer (500 mL)**

Add 300 mL of distilled water and a stir bar to a 1 L-beaker, stir

CAREFULLY dissolve 1.1 g MgCl2 (M8266-1KG Sigma)

Add 30.3 g TRIZMA (T6066-5KG Sigma Aldrich)

Add 13 g Ammonium sulfate = (NH4)2SO4 (A4418-500G Sigma)

Set the pH to 9.2 with about 2.5 mL 37% HCl (258148-2.5L Sigma Aldrich)

Add 100 mL DMSO (Danger! TOXIC!) (Old bottle from Tom Snyder)

Add 5 mL Tween 20 (P1379-500ML Sigma Aldrich)

Adjust volume to 500 mL

Sterile filter and store at 4oC