

6.4 Reagents

REAGENT:	REFERENCE:	DIRECTIONS TO PREPARE:
TAE BUFFER 10X	Sigma T-4035	Comes in prepared packets, add DI water and qs to 1L . Label as 10X- STOCK (store at RT). Also can prepare a 50X stock (see Sambrook et al.).
TAE BUFFER 1X WORKING SOLUTION	TAE-1X	Diluted 1:10 from 10X stock. Label as TAE - 1X (store at RT).
PCR LOADING BUFFER -OR- LOADING DYE	Sigma P-7206 LOADING DYE 6X	Pre-made 6X concentrate, ready to use (store -20°C). Prepare in-house (per Sambrook et al. (store at 4°C): Bromophenol blue 0.25% Xylene cyanol 0.25% Glycerol 30.0 %

ETHIDIUM BROMIDE - Recommend buying EtBr already in solution to minimize working with this hazardous compound, or it can be prepared as follows:

Note: USE CAUTION IN PREPARING EtBr SOLUTIONS: Follow all MSDS precautions. Wear gloves, avoid all contact with skin, eyes, and respiratory system. LABEL ALL BOTTLES WITH "CHEMICAL CARGINOGEN."

EtBr STOCK SOLUTION - 10mg/mL	Ethidium Bromide	100 mg
	DI water	10 mL
	Label as EtBr STOCK (10mg/mL). Protect from light (store at RT).	

EtBr-WORKING SOLTION - 4.0ug/mL* WORKING STAIN SOLUTION	Add 200 µL STOCK SOLUTION to 500mL water Label EtBr - <u>Working Solution</u> (store at RT).
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*References may suggest weaker working solutions (0.5 µg/mL) and staining periods of 45 to 60 minutes.