Solutions used in the isolation of mononucleosomal DNA from Haloferax volcanii

MNase Buffer:	10 mM Tris (pH 8) 1 mM CaCl ₂	
MNase	add 850 microliters of dH_20 to vial	
RNAse A (DNAse fr	 Dissolve contents of tube in .01 M Na Acetate, pH 5.2 Heat at 100 degrees C for 15 minutes. Allow to cool slowly to room temperature. Adjust pH with .1 volumes of 1M Tris Hcl, pH 7.5 Aliquot and freeze. 	
10% SDS	10% weight: volume Sodium dodecyl sulfate in dH_20	
.5 M EDTA		
Stop Buffer	Mix together equal volumes of 10% SDS and .5 M EDTA	
5 M NaCl		
Ethidium Bromide	10 mg/ml	
	(Caution: ethidium bromide is highly mutagenic and must b handled with very carefully. Be sure to wear gloves and cha them when you are done handling this reagent.)	
Tris / Glycine 5X Sto	5 ck Buffer 288 g glycine 60 g Tris dH_20 to 1 liter	

Note: this buffer will be diluted to 1/2 X concentration as needed as follows:

100 mls 5X Tris/Glycine Stock Buffer 1900 mls d H_20

4% Agarose gel	Add 4g Nuseive GTG Agarose per 100 mls 1/2 X Tris / Glycine Running Buffer (use about 80 mls per gel)
	example: for 3 gels, dissolve 9.6 g agarose in 240 mls of 1/2 X Running Buffer. Microwave 3-4 minutes till clear. Pour while still quite hot. Do not add Ethidium Bromide.

3 M Na Acetate, pH 5.2

7.5 M Ammonium Acetate (when doing this procedure using yeast instead of haloferax)

70% Ethanol

Chloroform / Isoamyl alcohol mixture	96 mls chloroform
	4 mls isoamyl alcohol

(need a 24 : 1 ratio)

Note: These are toxic so handle with care in the fume hood and store there.

Phenol / Chloroform / Isoamyl alcohol mixture

Add 25 mls Phenol to 25 mls Chlorform/Isoamyl Alcohol mixture in the fume hood. Dispose of pipettes in Hazardous waste trash.

Note that phenol is also very toxic and please use this mixture with care.