



Preparing 10 L of M9 buffer for nematode culture

Gurdon Institute media kitchen¹

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Working



ABSTRACT

Prepare 10 litres of M9 solution for collecting and washing C. elegans.

MATERIALS

NAME V	CATALOG #	VENDOR V
double distilled water (ddH20)		
Di-Sodium Hydrogen Orthophosphate Dihydrate Certified AR for Analysis Fisher Chemical	S/4450/53	
Sodium chloride meets analytical specification of Ph.Eur Fisher Chemical	S/3160/65	Fisher Scientific
Magnesium Sulfate Heptahydrate Certified AR for Analysis Fisher Chemical	M/1050/53	Fisher Scientific
Potassium Dihydrogen Orthophosphate Certified AR for Analysis Fisher Chemical	P/4800/53	Fisher Scientific
SYCHEM autoclave	View	Syschem

SAFETY WARNINGS

This protocol makes use of an autoclave. Make sure you know how to use it properly before starting the protocol.

1

Ingredients	Quantity	
Na2HPO4		60g
KH2PO4		30g
NaCl		50g
Double	up to 10L	
distilled H2O		
Add 1M MgSO4 after autoclaving @ 100ul/100ml		



2

1	Dissolve ingredients in 8L double distilled H2O
2	Adjust volume to 10L using double distilled H2O
3	Measure or use pump to dispense aliquots accurately.
4	Label, date and autoclave.

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15m

20m

5	After autoclaving, add 100ul 1M MgSO4 per 100ml. (ie. 100ul to 100ml and 200ul to 200ml bottles).
NB	1M MgSO4 at 1ul/1ml in
	the M9 buffer gives a final concentration of 1mM

The autoclave is SYCHEM VS Series. The media cycle is 15 minutes at 121 degrees centigrade. It is then cooled down in the machine for 3 hours.

After autoclaving, add 100 μ l 1M MgSO4 per 100 ml. (ie. 100 μ l to 100 ml and 200 μ l to 200 ml bottles).

10m

NB: 1M MgSO4 at 1 μ l/1ml in the M9 buffer gives a final concentration of 1 mM

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