

Jun 03, 2019

Prepare 2L of 2X freezer buffer to freeze down *C. elegans*

DOI

<https://dx.doi.org/10.17504/protocols.io.3nhgmb6>

Cancer Research UK / Wellcome Gurdon Institute media kitchen¹

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Protocol Citation: Cancer Research UK / Wellcome Gurdon Institute media kitchen 2019. Prepare 2L of 2X freezer buffer to freeze down *C. elegans*. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.3nhgmb6>

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Protocol status: Working

We use this protocol and it's working

Created: June 03, 2019

Last Modified: June 03, 2019

Protocol Integer ID: 23977

Keywords: 2x freezer buffer, 2l of 2x freezer buffer, litres of 2x freezer buffer, buffer, preparation

Abstract

This protocol accompanies you in the preparation of 2 litres of 2X freezer buffer, which is the buffer used to freeze down *C. elegans* strains for long-term storage

Materials

MATERIALS

 double distilled water (ddH₂O)

 Sodium chloride meets analytical specification of Ph.Eur Fisher Chemical **Fisher Scientific Catalog #S/3160/65**

 Magnesium Sulfate Heptahydrate Certified AR for Analysis Fisher Chemical **Fisher Scientific Catalog #M/1050/53**

 Potassium Dihydrogen Orthophosphate Certified AR for Analysis Fisher Chemical **Fisher Scientific Catalog # P/4800/53**

 SYCHEM autoclave **Syschem**

 Glycerol 99 % Certified AR for Analysis Fisher Chemical **Fisher Scientific Catalog #G/0650/17**



1

 Freezer_buffer.xls

2

	Ingredients	Quantity	
	NaCl 1M		200 ml
	1M KH ₂ PO ₄	pH 6	100 ml
	Glycerol		600 ml
	Double distilled H ₂ O	up to 2L	
			Auto clav e
	0.1M MgSO ₄	300 microlitres	
			per 100 ml bottl e

3

1	Combine NaCl, KH ₂ PO ₄ and Glycerol solutions with approx 900ml double distilled H ₂ O in 2L measuring cylinder on magnetic stirrer.
2	Make up to volume using double distilled H ₂ O
3	Aliquot into 20×100ml media bottles,label,date and autoclave.



4	After autoclaving and the solution is cold, add 300 microlitres of 0.1m MgSO ₄ to each 100ml bottle using a Gilson in the flow hood.
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