

Dec 11, 2024

Version 1

Wash buffer 1 V.1

DOI

<https://dx.doi.org/10.17504/protocols.io.ewov1955ylr2/v1>

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Document Citation: Anna Schmidt, Anya Patova, Matthias Meyer 2024. Wash buffer 1. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.ewov1955ylr2/v1>

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Created: July 24, 2024

Last Modified: December 11, 2024

Document Integer ID: 103969

Keywords: hybridization capture by the ancient dna core unit, dna analysis of an early modern human, ancient dna core unit of the mpi, ancient dna, dna analysis, hybridization capture, wash buffer, ancient dna core unit, dna, protocol for the preparation, buffer, early modern human

Funders Acknowledgements:

Max Planck Society

Grant ID: -

Abstract

Protocol for the preparation of Wash buffer 1 (Fu et al. 2013), which is used in hybridization capture by the Ancient DNA Core Unit of the MPI-EVA.

References

Fu, Q., Meyer, M., Gao, X., Stenzel, U., Burbano, H.A., Kelso, J., Pääbo, S. (2013) DNA analysis of an early modern human from Tianyuan Cave, China. *Proc Natl Acad Sci U S A*. 110(6):2223-7. doi: 10.1073/pnas.1221359110

Troubleshooting

Note

This protocol describes the preparation of 500 ml buffer.

Materials

Reagent/consumable	Supplier	Catalogue number
Reagents		
Water	Sigma Aldrich/Merck	1153332500
20x SSC buffer	Ambion	AM9770
20 % SDS solution	Serva	39575.01
Consumables		
Square media bottle 500 ml	VWR	391-0630
50 ml serological pipette	Corning BV	357550
5 ml serological pipette	Corning BV	357543

Equipment

- Serological pipette controller (e.g. battery-powered pipetting aid ROTILABO, cat. no. TC16.1)

Protocol

1. Prepare the buffer in a 500 ml square media bottle by adding the following reagents. Use the glass pipette for transfer of large volumes (> 1 ml). Mix reagents by shaking the bottle.

Reagent	Volume	Final concentration in reaction
Water	472.5 mL	
20x SSC buffer	25 mL	1x
20% SDS solution	2.5 mL	0.1%
<i>sum</i>	<i>500 ml</i>	



Note

[Labeling]

Label the bottle with the buffer name, batch ID, date and the initials of the person who prepared the buffer.

Attention: Every single bottle prepared at the same day gets a new batch ID. Name the batches with Roman numerals (e.g. batch I, batch II, etc.)

2. Store the buffer at room temperature until used. Shelf life is at least one year from preparation.

Note

[Documentation]

Note the lot numbers, date and initials written on the reagents used for buffer preparation in Labfolder (orange fields).