

JAN 29, 2024

OPEN ACCESS



DOI:

dx.doi.org/10.17504/protocols.io.k xygx3x7zg8j/v1

Document Citation: Anna Schmidt, Sarah Nagel, Matthias Meyer 2024. EBT buffer . protocols.io

https://dx.doi.org/10.17504/protocols.io.kxygx3x7zg8j/v1

License: This is an open access document distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Created: Jan 15, 2024

Last Modified: Jan 29, 2024

DOCUMENT integer ID: 93532

EBT buffer

Anna Schmidt¹, Sarah Nagel¹, Matthias Meyer¹

¹Max Planck Institute for Evolutionary Anthropology



Anna Schmidt

Max Planck Institute for Evolutionary Anthropology

ABSTRACT

EBT buffer (10 mM Tris-HCl, 0.05% Tween-20, pH 8.0) is used in various steps of sample preparation by the Ancient DNA Core Unit of the MPI-EVA.

Oct 29 2024



Funders Acknowledgement:

Max Planck Society

Note

This protocol describes the preparation of 500 ml buffer.

Materials

Reagent/consumable	Supplier	Catalogue number	
Reagents			
Water	Sigma Aldrich/Merck	1153332500	
1 M Tris-HCl, pH 8.0	AppliChem	A4577, 1000	
Tween-20	Thermo Fisher Scientific	11417160	
Consumables			
Square media bottle 500 ml	VWR	391-0630	
50 ml serological pipette	Corning BV	357550	
5 ml serological pipette	Corning BV	357543	

Equipment

Automated pipetting aid for glas pipette

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		494.75 ml	
1 M Tris	:-HCl, pH 8.0	5 ml	10 mM
Tween-2	20	250 μΙ	0.05%
sum		500 ml	

protocols.io

Note

[Note]

It is also acceptable to use the scale of the bottle to fill up to \sim 400 ml with water, then adding the remaining 95 ml using the glass pipette.

2. Review the protocol in which the buffer is used to determine whether the buffer should be decontaminated using UV treatment. Instructions for using UV decontamination are provided in the Appendix.

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.)

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

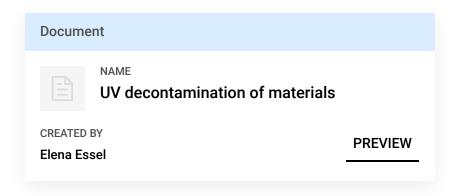
Note

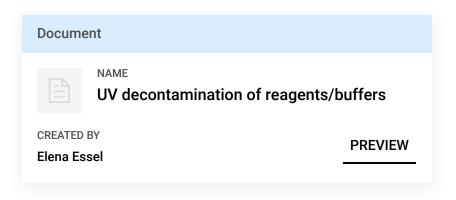
[Documentation]

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

Appendix

protocols.io





Oct 29 2024