

NucleoSpin® DNA Trace Bone Buffer Set



Dear valued customer,

Thank you for choosing MACHEREY-NAGEL for your application.

This product is for research use only.

Important information regarding product components, specifications, safety instructions, and processing protocols, can all be found on the product website and accessed easily via the QR code.

[QR-Code product website](#)



[qr.mn-net.com/qr/\(241\)740943.25](http://qr.mn-net.com/qr/(241)740943.25)

Contents

NucleoSpin® DNA Trace Bone Buffer Set	
REF	740943.25
Lysis Buffer T1	2 × 100 mL
Buffer B3	4 × 60 mL
Proteinase K (lyophilized)	30 mg
Proteinase Buffer PB	1.8 mL
User manual	1

Product description

The NucleoSpin® DNA Trace Bone Buffer Set is specifically designed to complement the NucleoSpin® DNA Trace kit. It is suitable for 25 preparations of genomic DNA from human bones, when used in conjunction with the NucleoSpin® DNA Trace kit (REF 740942.25).

This buffer set can also be used for genomic DNA extraction from human bones with the NucleoSpin® DNA Forensic kit (REF 740840.10/.50). For detailed instructions, please refer to the support protocol “DNA from bones and teeth”.

This buffer set can also be used for genomic DNA extraction from human bones with the NucleoMag® DNA Forensic kit (REF 744660.1). For detailed instructions, please contact support@mn-net.com.

Storage conditions and preparation of working solution

Attention:

Buffer B3 contains guanidine hydrochloride! Wear gloves and goggles!

- All buffer set components can be stored at room temperature (15–25 °C) and are stable for up to one year.

Before starting the NucleoSpin® DNA Trace protocol for isolation of genomic DNA from bones prepare the following:

- Lyophilized Proteinase K can be stored at 15–25 °C until the expiration date without decrease in performance. Before first use of the kit, add 1.5 mL of Proteinase Buffer PB to dissolve the lyophilized Proteinase K (30 mg), to obtain a 20 mg/mL solution. Reconstituted Proteinase K should be

stored at $-20\text{ }^{\circ}\text{C}$ for up to 6 months, but only until the expiration date.

- Phosphate Buffer (0.5 M EDTA/0.25 M NaPO_4 , pH 8) is necessary for sample pre-lysis but is not included in the NucleoSpin[®] DNA Trace Bone Buffer Set. For each extraction, 2 mL of Phosphate Buffer is needed and must be prepared as described below:

Preparation of Phosphate Buffer

(0.5 M EDTA/0.25 M PO_4^{3-} , pH 8.0)

Na_2HPO_4 (water-free; MW = 142 g/mol)

Na-salt of EDTA (MW = 336.2 g/mol)

(alternative: free EDTA, MW = 292.2 g/mol)

Procedure for 1 L of Phosphate Buffer:

1. Weigh Na_2HPO_4 35.5 g
 Na_2EDTA 168.1 g
2. Fill with 900 mL H_2O up to 9/10 complete volume.
3. Adjust pH with NaOH during the solving of salt.
(EDTA may be difficult to dissolve if pH is not adjusted)
4. Fill up to final volume of 1 L with H_2O .
Depending on the kind of EDTA that is used the pH may differ slightly but may easily be adjusted with NaOH.

Safety instructions

When working with this product, wear suitable protective clothing (e.g., lab coat, disposable gloves, and protective goggles).

QR-Code Safety Data Sheet

Please find a digital version of the safety data sheets by following the link below:



www.mn-net.com/sds

Product use restriction / warranty

All MACHEREY-NAGEL products are designed for their intended use only. They are not intended to be used for any other purpose. The description of the intended use of the products can be found in the original MACHEREY-NAGEL product leaflets. Before using our products, please observe the instructions for use and the safety instructions from the respective Material Safety Data Sheet of the product.

This MACHEREY-NAGEL product is carrying documentation stating specifications and other technical information. MACHEREY-NAGEL warrants to meet the stated specifications. The provided warranty is limited to the data specifications and descriptions as given in the original MACHEREY-NAGEL literature. No other statements or representations, written or oral, by MACHEREY-NAGEL's employees, agents or representatives, except written statements signed by a duly authorized officer of MACHEREY-NAGEL are authorized. They should not be relied upon by the customer and are not a part of a contract of sale or of this warranty.

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Products and their application are subject to change. Therefore, please contact our Technical Service Team for the latest information on MACHEREY-NAGEL products. You may also contact your local distributor for general scientific information. Descriptions in MACHEREY-NAGEL literature are provided for informational purposes only.

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