

NucleoSpin® DNA Trace Bone Buffer Set

1 Contents

NucleoSpin® DNA Trace Bone Buffer Set	
Cat. No.	740943.25
Lysis Buffer T1	2 x 100 ml
Buffer B1	2 x 100 ml
Buffer B2	50 ml
Proteinase K (lyophilized)	30 mg
Proteinase Buffer PB	1.8 ml
Label for Lysis Buffer B3	1
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2 Product description

The **NucleoSpin® DNA Trace Bone Buffer Set** is especially designed for completion of the NucleoSpin® DNA Trace kit. It is suited for 25 preparations of genomic DNA from human bones in conjunction with the NucleoSpin® DNA Trace kit (Cat. No. 740942.25).

3 Storage conditions, preparation of working solutions and safety cautions

Attention:

Buffer B3 contains guanidine hydrochloride! Wear gloves and goggles!

- All buffer set components can be stored at room temperature (20-25°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:

- Before first use of the kit add indicated volume of Proteinase Buffer PB to dissolve lyophilized Proteinase K. Proteinase K solution is stable at 4°C for up to 6 months. It is recommended to store at -20°C if the solution will not be used up during this period.

NucleoSpin® DNA Trace Bone Buffer Set	
Cat. No.	25 preps 740943.25
Proteinase K (lyophilized)	30 mg add 1500 µl Proteinase Buffer

- Preparation of Lysis Buffer B3: Transfer the total contents of both bottles Buffer B1 to Buffer B2. Mix well. The resulting Buffer B3 is stable for at least 5 months at room temperature in the dark.

- For each preparation 2 ml of Phosphate Buffer are necessary.

Preparation of Phosphate Buffer

(0.5 M EDTA/0.25 M PO₄³⁻, pH 8.0)

Na₂HPO₄ (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 1l of Phosphate Buffer

1. Weigh Na₂HPO₄..... 35.5 g
Na₂EDTA.....168.1 g
2. Fill with H₂O up to 9/10 complete volume.....900 ml
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 with H₂O.....ad 1l

Depending on the kind of EDTA that is used the pH may differ slightly but may easily be adjusted with NaOH.

4 Safety instructions – risk and safety phrases

The following components of the NucleoSpin® DNA Trace Bone Buffer Set contains hazardous contents.

Wear gloves and goggles and follow the safety instructions given in this section!

Component	Hazard Contents	Hazard Symbol	Risk Phrases	Safety Phrases
B1	Guanidine hydrochloride	Xn*	R 22-36/38	
Proteinase K	Proteinase K, lyophilized	Xn*	R 36/37/38-42	S 22-24-26-36/37

Risk Phrases

- R 22 Harmful if swallowed
- R 36/37/38 Irritating to eyes, respiratory system and skin
- R 36/37 Irritating to eyes and skin
- R42 May cause sensitization by inhalation

Safety Phrases

- S 22 Do not breathe dust
- S 24 Avoid contact with the skin
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S 36/37 Wear suitable protective clothing and gloves

* Label not necessary, if quantity below 125 g or ml (according to 67/548/EEC Art. 25, 1999/45/EC Art. 12 and German GefStoffV § 42 an TRGS 200 7.1)

5 Service Bioanalysis

Technical support and customer service

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