

PCR Binding Solution (SPB)

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
PCR Binding Solution (SPB)	DS0027-12ML	12 ml
	DS0027-30ML	30 ml
	DS0027-150ML	150 ml

Intended Use

Recommended for binding of DNA from human blood, plasma, tissue, cells and serum samples.

Introduction: PCR Binding Solution (SPB) is a buffer solution used for the purpose of binding cells/ tissues for use in molecular biology experiments.

Application: PCR Binding Solution (SPB) is used for binding blood cells, animal cells, tissues and bacterial cells onto the membrane.

Properties:

Appearance: Colorless solution

Clarity: Clear and free of particles

DNase & RNase: None detected

Suitability Test: This reagent has been tested and is suitable for binding of DNA from blood, animal cells and tissues, bacteria etc.

Storage conditions: PCR Binding Solution (SPB) has to be stored at 15 - 25°C. The shelf- life of this solution in 12 months.

Specimen Handling and Collection

Collect whole blood in an anticoagulant tube (an EDTA tube is preferred) under sterile conditions (if to be used for future) and tissues in a sterile container. Store the samples at 2-8°C for short term storage or -20°C for long term storage. Ensure that the blood sample/ tissues are at room temperature (15-25°C) before beginning the protocol. After use, contaminated material must be sterilized by autoclaving before discarding.

Types of Specimen

Clinical samples: Whole blood, Plasma, Serum, cells and tissues

Procedure

- In a 2.0ml capped collection tube, add 5 volumes of PCR Binding Solution (SPB) (DS0027) to 1 volume of the PCR sample and mix well by pipetting. It is not necessary to remove mineral oil.
For example: Add 500 µl of PCR Binding Solution (SPB) to 100 µl PCR sample (not including oil)
- Apply the PCR sample/ PCR Binding Solution (SPB) mixture to the HiElute Miniprep Spin Column (capped) [DBCA03]. Centrifuge for 1 minute at 12,000 x g (≈13,000 rpm).
- Discard the flow-through and replace the column in the same collection tube.

4. Add 700 µl diluted Wash Solution (HPE) (DS0024) to the column. Centrifuge for 1 minute at 12,000 x g (\approx 13,000 rpm) in a tabletop microcentrifuge.

NOTE: Prepare Wash Solution as indicated in General Preparation Instructions

5. Discard the flow-through and replace the column in the same collection tube.
6. Centrifuge for 1 minute at 12,000 x g (\approx 13,000 rpm) to remove excess ethanol.
7. Transfer the column to a clean 2.0ml uncapped collection tube, pipette 50 µl of Elution Buffer (ET) (DS0040) to the center of the column and incubate at room temperature (15-25°C) for 1 minute. Centrifuge for 1 minute at 12,000 x g (\approx 13,000 rpm) in a tabletop microcentrifuge.

Alternatively, for increased DNA concentration, add 30 µl Elution Buffer to the centre of the column. Incubate at room temperature (15-25°C) for 1 minute and then centrifuge for 1 minute at 12,000 x g (\approx 13,000 rpm).

8. Transfer the eluate to a fresh capped 2ml collection tube for longer DNA storage.

Warning and Precautions

Not for Medicinal Use. Read the procedure carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Limitations

1. The yield of DNA depends upon the type and the volume of starting material used.

Performance and Evaluation

Performance of the solution is expected when the solution is used as per the protocol mentioned in the product insert within the expiry period when stored at recommended temperature.

Quality Control

Type of Sample	DNA Recovery
Blood PCR product	80-95 %

Safety Information

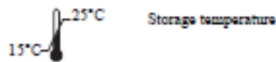
The PCR Binding Solution (SPB) contains irritants. Take appropriate laboratory safety measures and wear gloves when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed off in accordance with current laboratory techniques.

Technical Assistance

At HiMedia, we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail to mb@himedialabs.com.



Storage temperature



Do not use if package is damaged



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